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(U.S.) Geological Survey, Lakewood, CO

May 83

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Water-resources data for Colorado for the 1982 water year consists of records of stage, discharge, and water quality of streams; stage, contents and water quality of lakes and reservoirs, and water levels and water quality of wells and springs. This report (Volumes 1, 2, and 3) contains discharge records for 408 gaging stations, stage and contents of 27 lakes and reservoirs, 6 partial-record low-flow stations, peak flow information for 30 crest-stage partial-record stations, and 50 miscellaneous sites; water quality for 163 gaging stations and 245 miscellaneous sites; and water levels for 55 observation wells. Nine pertinent stations in bordering States also are included in this report. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of J.F. Blakey, district chief. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies.

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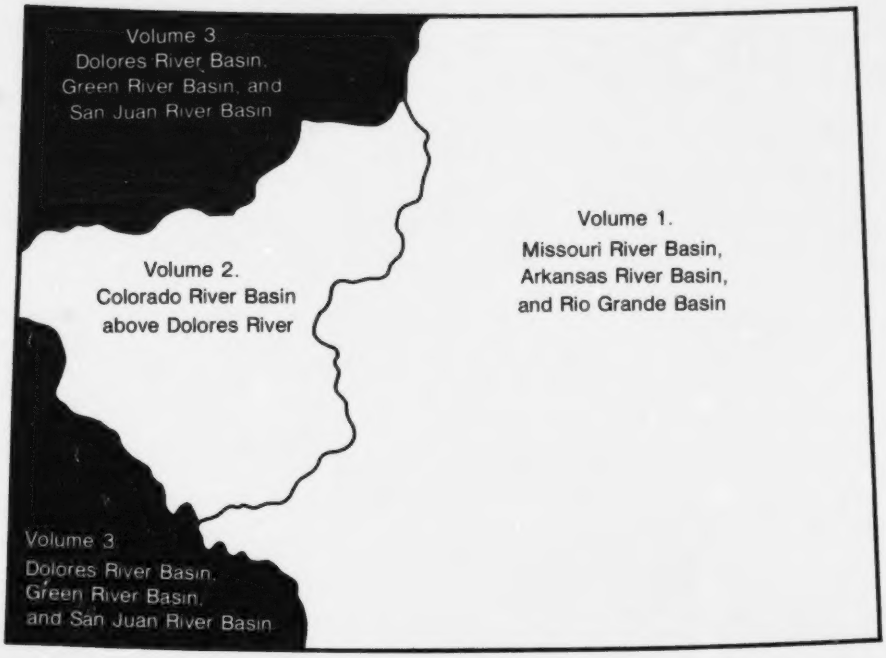
Volume 3. Dolores River Basin, Green River Basin, and San Juan River Basin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Dolores River Basin,
Green River Basin, and
San Juan River Basin
Volume 2.
Colorado River Basin
above Dolores River
Volume 1.
Missouri River Basin,
Arkansas River Basin,
and Rio Grande Basin
Volume 3
Dolores River Basin,
Green River Basin,
and San Juan River Basin

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CO-82-3
Prepared in cooperation with the State of Colorado
and with other agencies

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CALENDAR FOR WATER YEAR 1982

1981

OCTOBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
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29	30					

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1982

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31						

FEBRUARY

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28						

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AUGUST

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SEPTEMBER

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U.S. Geological Survey
Box 25046, Mail Stop 415
Denver Federal Center
Lakewood, CO 80225

1983

PREFACE

This report, which consists of three volumes, was prepared by the U.S. Geological Survey in cooperation with the State of Colorado and other agencies by personnel of the Colorado District of the Water Resources Division under the supervision of J. F. Blakey, District Chief, and Alfred Clebsch, Jr., Regional Hydrologist, Central Region, Lakewood, Colorado.

This report is one of a series issued State by State under the direction of Philip Cohen, Chief Hydrologist, and James E. Biesecker, Assistant Chief Hydrologist for Scientific Publications and Data Management, Reston, Virginia.

Data for Colorado are in three volumes as follows:

Volume 1. Missouri River, Arkansas River, and Rio Grande basins in Colorado,
Volume 2. Colorado River basin in Colorado, above the Dolores River, and
Volume 3. Dolores River, Green River, and San Juan River basins in Colorado.

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Partial tables: (c) chemical, (b) biological, (m) microbiological, (s) sediment, (t) temperature]

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WATER RESOURCES DATA FOR COLORADO, 1982

VOLUME 3: DOLORES, GREEN, AND SAN JUAN BASINS

By J.T. Steinheimer, R.C. Ugland, H.E. Burch and E.A. Wilson

INTRODUCTION

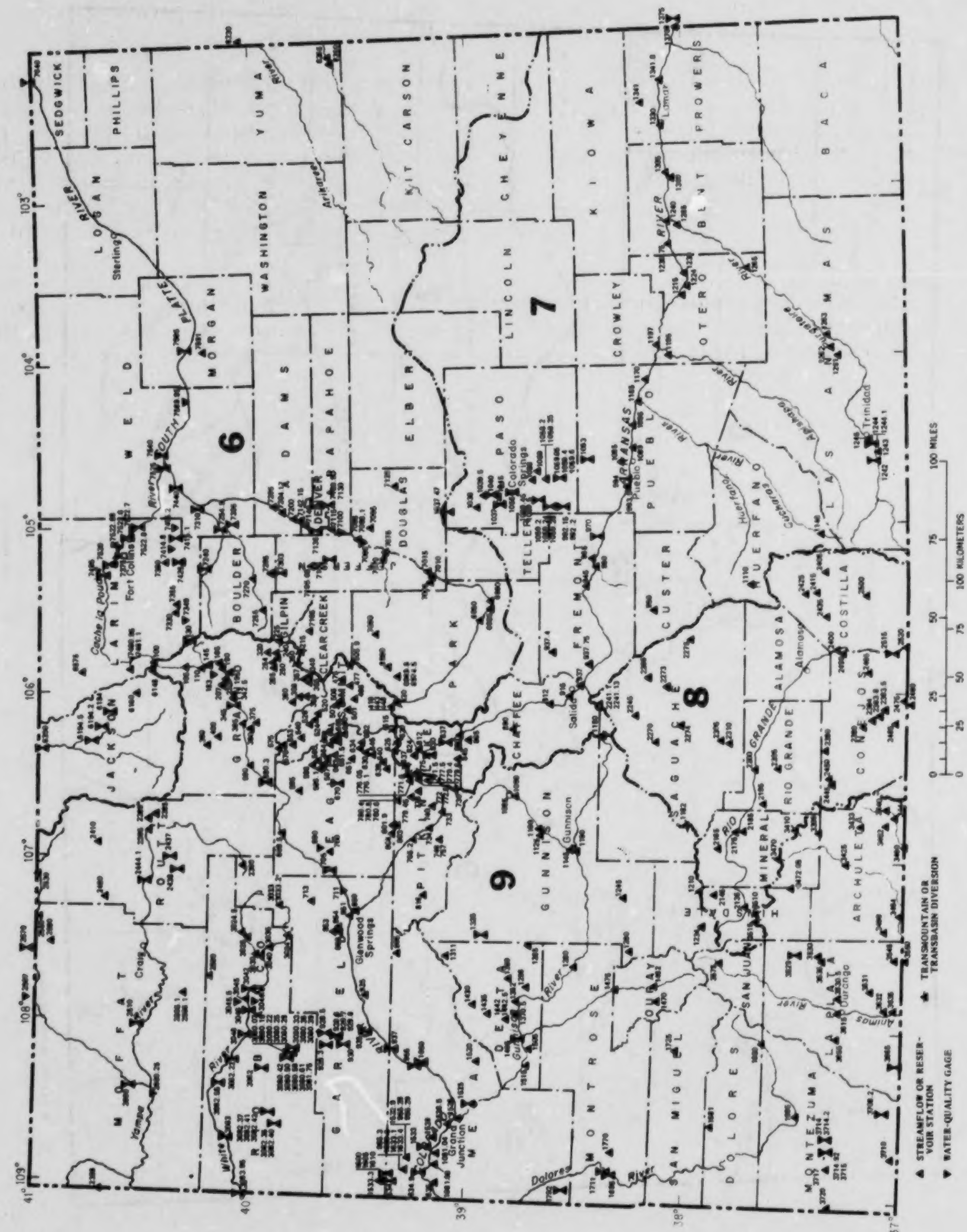
Water-resources data for the 1982 water year for Colorado consists of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of wells and springs. This report (volumes 1, 2, and 3) contains discharge records for 408 streamflow-gaging stations, stage and contents of 27 lakes and reservoirs, low-flow data for 6 partial-record stations, peak flow information for 30 crest-stage partial-record stations and 50 miscellaneous sites; water-quality data for 163 streamflow-gaging stations and 245 miscellaneous sites; and water levels for 55 observation wells. Locations of lake- and streamflow-gaging stations and water-quality stations are shown in figure 1, locations of crest-stage partial-record stations are shown in figure 2, and locations of observation wells are shown in figure 3. Nine pertinent stations in bordering States also are included in this report. The records were collected and computed by the Colorado District. These data were collected by the U.S. Geological Survey and cooperating State and Federal agencies in Colorado and represent that part of the National Water Data System.

Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey Water-Supply Papers entitled, "Surface-water Supply of the United States." These water-supply papers were published in an annual series through September 30, 1960, and then in 5-year compilations for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1955 in an annual series of water-supply papers entitled "Water Levels and Artesian Pressures in Wells in the United States," and from 1955 to the present time, in a 5-year series of water-supply papers entitled "Ground-Water Levels in the United States." Water-supply papers may be purchased from Eastern Distribution Branch Text Products Section, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

For water years 1961 through 1970, streamflow data were released by the Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 water year, water data on streamflow, water quality, and ground water are published in official Survey reports on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report CO-82-3." These water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (303) 234-5092.


▲ STREAMFLOW OR RESERVOIR STATION
▼ WATER-QUALITY GAGE
◆ TRANSMOUNTAIN OR TRANSBASIN DIVERSION
0 25 50 75 100 MILES
0 25 50 75 100 KILOMETERS
41°
40°
39°
38°
37°
109°
108°
107°
106°
105°
104°
103°
6
7
8
9
MOFFAT
ROUTT
JACKSON
LARIMER
WELD
LOGAN
SEDGWICK
PHILLIPS
MORGAN
WASHINGTON
YUMA
BOULDER
GILPIN
CLEAR CREEK
ADAMS
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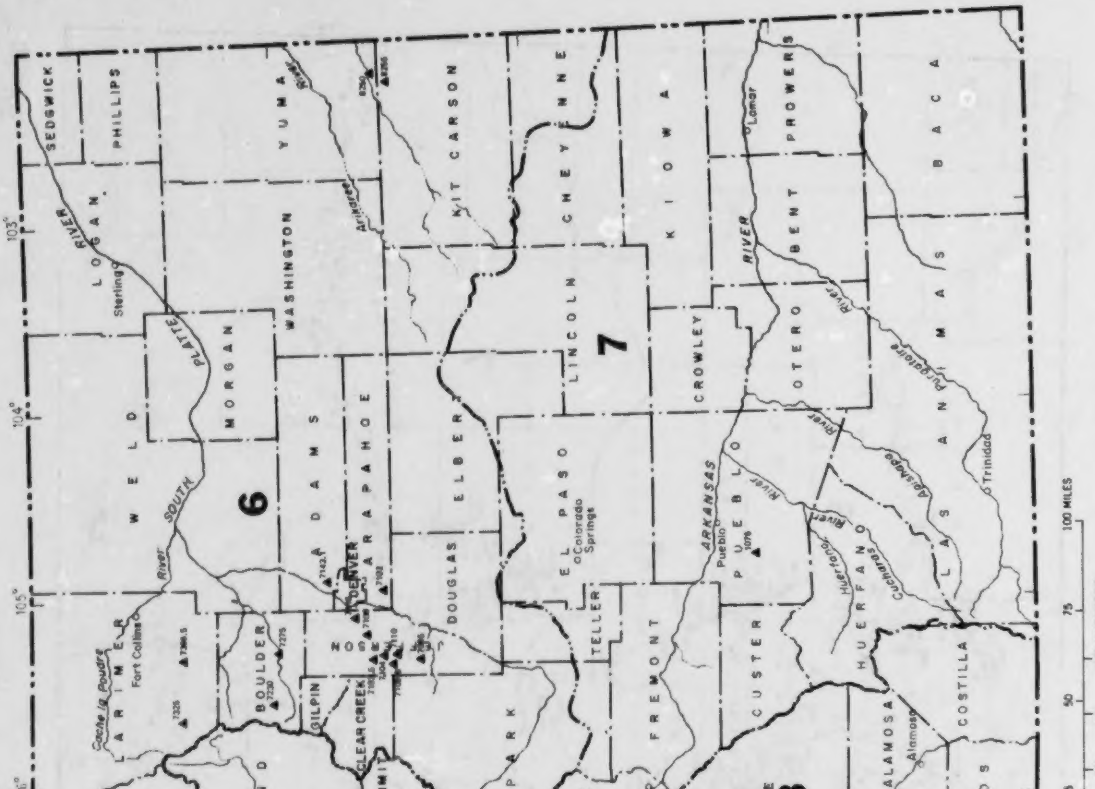
PROWERS
BACA
LAS ANIMAS
HUERFANO
COSTILLA
ALAMOSA
CONEJOS
RIO GRANDE
SAGUACHE
MINERAL
HINSDALE
ARCHULETA
LA PLATA
SAN JUAN
MONTEZUMA
DOLORES
SAN MIGUEL
OURAY
MONTROSE
DELTA
Craig
Sterling
Fort Collins
Glenwood Springs
Grand Junction
Gunnison
Salida
Colorado Springs
Pueblo
Trinidad
Alamosa
Durango
Lamar
SOUTH PLATTE RIVER
Cache la Poudre River
Yampa River
White River
Colorado River
Gunnison River
Dolores River
Animas River
Arkansas River
RIO GRANDE
Huerfano River
Cucharas River
Purgatoire River
Arikaree River

Figure 1.--Location of lake- and streamflow-gaging stations and quality-of-water stations in Colorado.



▲ PARTIAL RECORD STATION
0 25 50 75 100 MILES
0 25 50 75 100 KILOMETERS
41°
40°
39°
38°
37°
109°
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106°
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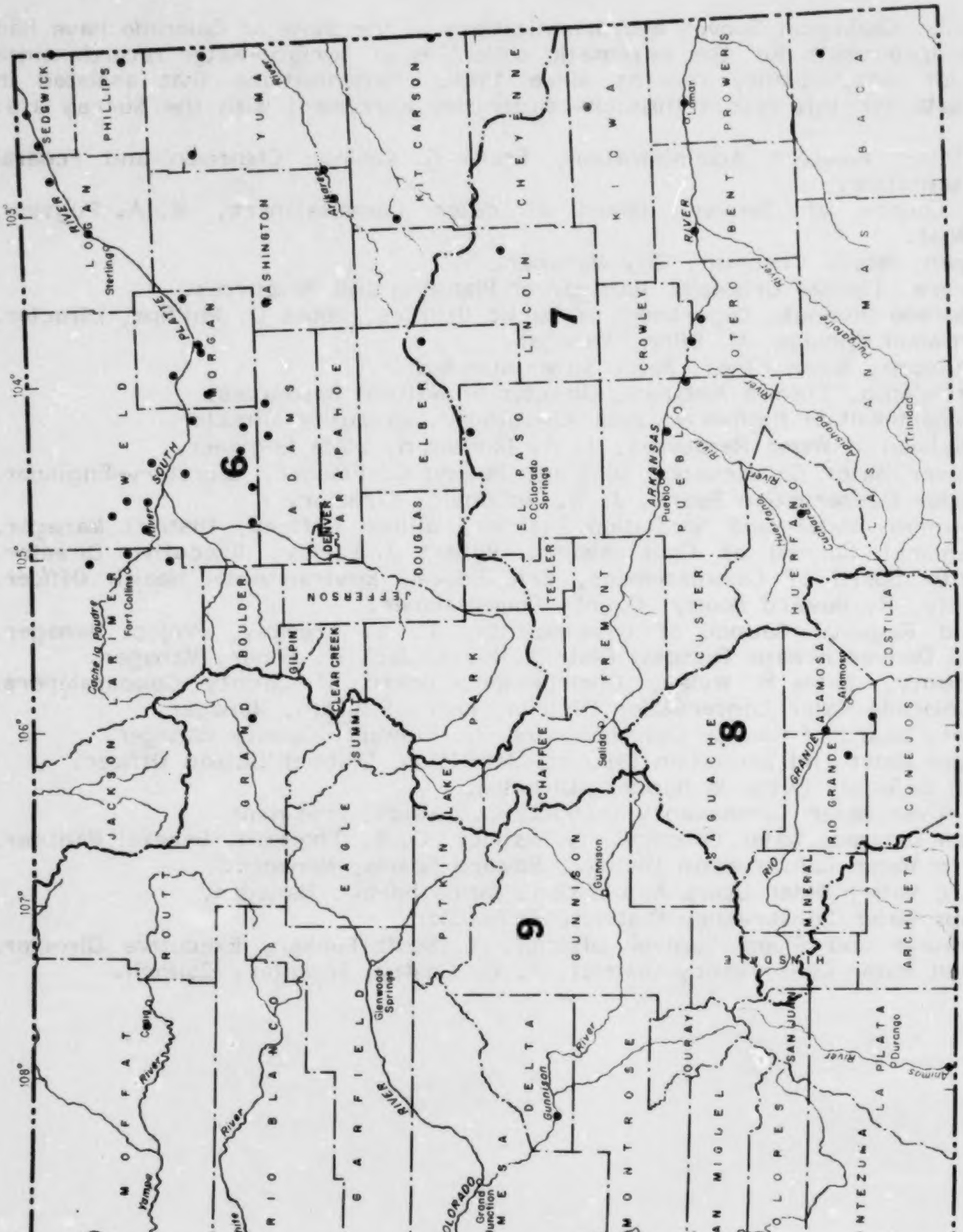
Gunnison
Glenwood Springs
Grand Junction
Craig
Durango
SOUTH PLATTE RIVER
Cache la Poudre River
Arikaree
ARKANSAS RIVER
Purgatoire River
Apishapa River
Huerfano River
Cucharas
RIO GRANDE
COLORADO RIVER
Gunnison River
Dolores River
White River
Yampa River
Animas River

Figure 2.--Location of crest-stage and low-flow partial record stations in Colorado.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OURAY
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RIO GRANDE
COLORADO RIVER
Gunnison River
Dolores River
Animas River
Yampa River
White River
41°
40°
39°
38°
37°
109°
108°
107°
106°
105°
104°
103°
0 25 50 75 100 MILES
0 25 50 75 100 KILOMETERS

Figure 3.--Location of observation wells in Colorado.

COOPERATION

The U.S. Geological Survey and organizations of the State of Colorado have had cooperative agreements for the systematic collection of surface-water records since 1895 and for water-quality records since 1941. Organizations that assisted in collecting data for this report through cooperative agreement with the Survey are:

Arkansas River Compact Administration, Frank G. Cooley, Chairman and Federal Representative.
City and County of Denver, Board of Water Commissioners, M. A. Pugsley, President.
City of Aspen, Wayne Chapman, City Manager.
City of Aurora, Thomas Griswald, Manager of Planning and Resources.
City of Colorado Springs, Department of Public Utilities, James D. Phillips, Director.
City of Glenwood Springs, M. Flinn, Manager.
City of Longmont, James Cinea, Water Superintendent.
City of Northglenn, Thomas Ambalam, Director of Natural Resources.
Colorado Department of Highways, Jack Kinstlinger, Executive Director.
Colorado Division of Water Resources, J. A. Danielson, State Engineer.
Colorado River Water Conservation District, Roland C. Fischer, Secretary-Engineer.
Colorado Water Conservation Board, J. W. McDonald, Director.
Copper Mountain Water and Sanitation District, William Caffery, District Manager.
Denver Regional Council of Governments, Robert D. Farley, Executive Director.
Eagle County Board of Commissioners, Eric Edeem, Environmental Health Officer.
Grand County, R. Howard Moody, County Commissioner.
Larimer-Weld Regional Council of Governments, T. L. Trembly, Project Manager.
Metropolitan Denver Sewage Disposal District No. 1, Jack B. Enger, Manager.
Mineral County, Nellie M. Wyley, Chairperson, Board of County Commissioners.
Northern Colorado Water Conservation District, Larry Simpson, Manager.
Pitkin County Board of County Commissioners, C. Stewart, County Manager.
Pleasant View Water and Sanitation District, Jeff Isum, District Liaison Officer.
Pueblo Civil Defense, Betty Jo Hopper, Director.
Purgatoire River Water Conservancy District, C. Latuda, President.
Southeastern Colorado Water Conservancy District, C. L. Thomson, General Manager.
Southwestern Water Conservation District, Edward Searle, Manager.
Uncompaghre Valley Water Users Association, James Herbit, Manager.
Upper Yampa Water Conservancy District, J. Fetcher.
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HYDROLOGIC CONDITIONS

Overview of the State for the 1982 Water Year

The 1982 water year began with above normal precipitation west of the Continental Divide and below normal precipitation east of the Divide. This pattern persisted through April. In May, intense rains on the eastern plains eased the below normal precipitation that had prevailed since October. This began a wetter-than-normal trend throughout the State that lasted for the remainder of the water year.

Precipitation and departures from-normal-data obtained from published reports of the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service for the five major drainage basins in Colorado are shown in table 1. Precipitation and departures from normal are shown on a cumulative basis for each half of the water year and for the entire water year. During the first half of the year the Colorado River and the Rio Grande basins received more than normal precipitation whereas the Arkansas River, Kansas River, and the South Platte River basins all received less than normal precipitation. The last half of the water year all basins received above normal precipitation and the total year was above normal for the entire state.

Table 1.--Precipitation and departures from normal, in inches

Drainage basin	October-March		April-September		1982 water year	
	Precipitation	Departure from normal	Precipitation	Departure from normal	Precipitation	Departure from normal
Arkansas River-----	3.22	-0.94	12.61	+1.48	15.83	+0.54
Colorado River-----	9.65	+1.99	9.43	+1.25	19.08	+3.24
Kansas River-------	2.35	-1.26	16.85	+3.05	19.20	+1.79
South Platte River-	3.21	-1.12	13.69	+2.60	16.90	+1.48
Rio Grande River---	4.94	+.36	8.98	+1.69	13.92	+2.05

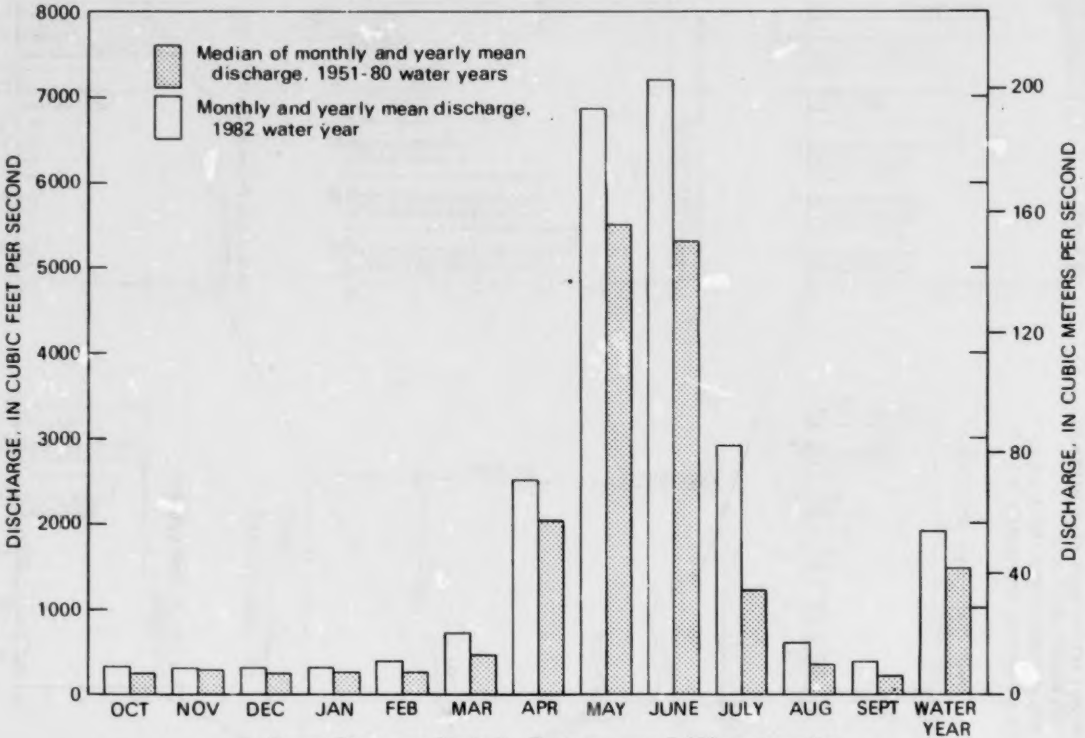
Streamflow

The monthly and annual mean discharges for the 1982 water year are compared with the median discharge for the 1951-80 water years as shown in figure 4. The monthly mean discharges for the 09251000 Yampa River near Maybell station ranged from 97 percent of normal in November to 236 percent of normal in July. The 1982 water year mean was 125 percent of normal as compared with 52 percent of normal in the 1981 water year. The 09361500 Animas River at Durango station had monthly means ranging from 110 percent of normal in January to 312 percent in September. The 1982 water year mean was 136 percent of normal as compared with 72 percent of normal in the 1981 water year.

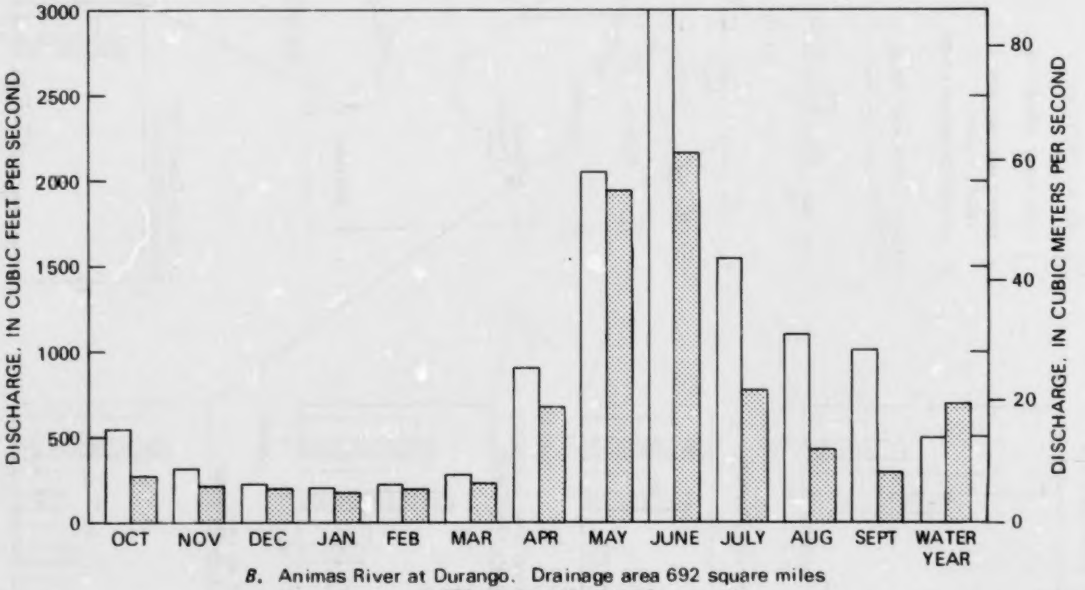
Storage in Vallecito Reservoir increased 60,130 acre ft (74.1 hm^3) compared with a loss of 30,230 acre feet (37.3 hm^3) in 1981. In general, most of the reservoirs showed an increase in storage during the year.

Chemical Quality of Streamflow

Water-quality conditions as defined by dissolved solids, hardness, and nutrient species concentrations vary considerably within the State (fig. 5). Much of the variation can be explained by differences in geology, climate, land use, and water use. In general, the quality of high mountain streams is characterized by low concentrations of dissolved constituents (dissolved solids less than 80 mg/L). The relatively chemically inert igneous rocks in mountainous areas and lack of man-induced influences are primary influences on water-quality conditions in these areas. However, local areas where streams contain large quantities of dissolved constituents (specific conductance ranging from 200 to 1500 μmhos) as well as heavy metals (cadium, copper, iron, lead, manganese, nickel, zinc, and occasionally selenium) occur around metal-mining districts (Moran and Wentz, 1974).



A. Yampa River near Maybell. Drainage area 3,410 square miles (8,830 square kilometers) approximately



B. Animas River at Durango. Drainage area 692 square miles (1,792 square kilometers)

Figure 4.--Discharge for 1982 water year compared with median discharge for 1951-80 water years at two representative streamflow-gaging stations.

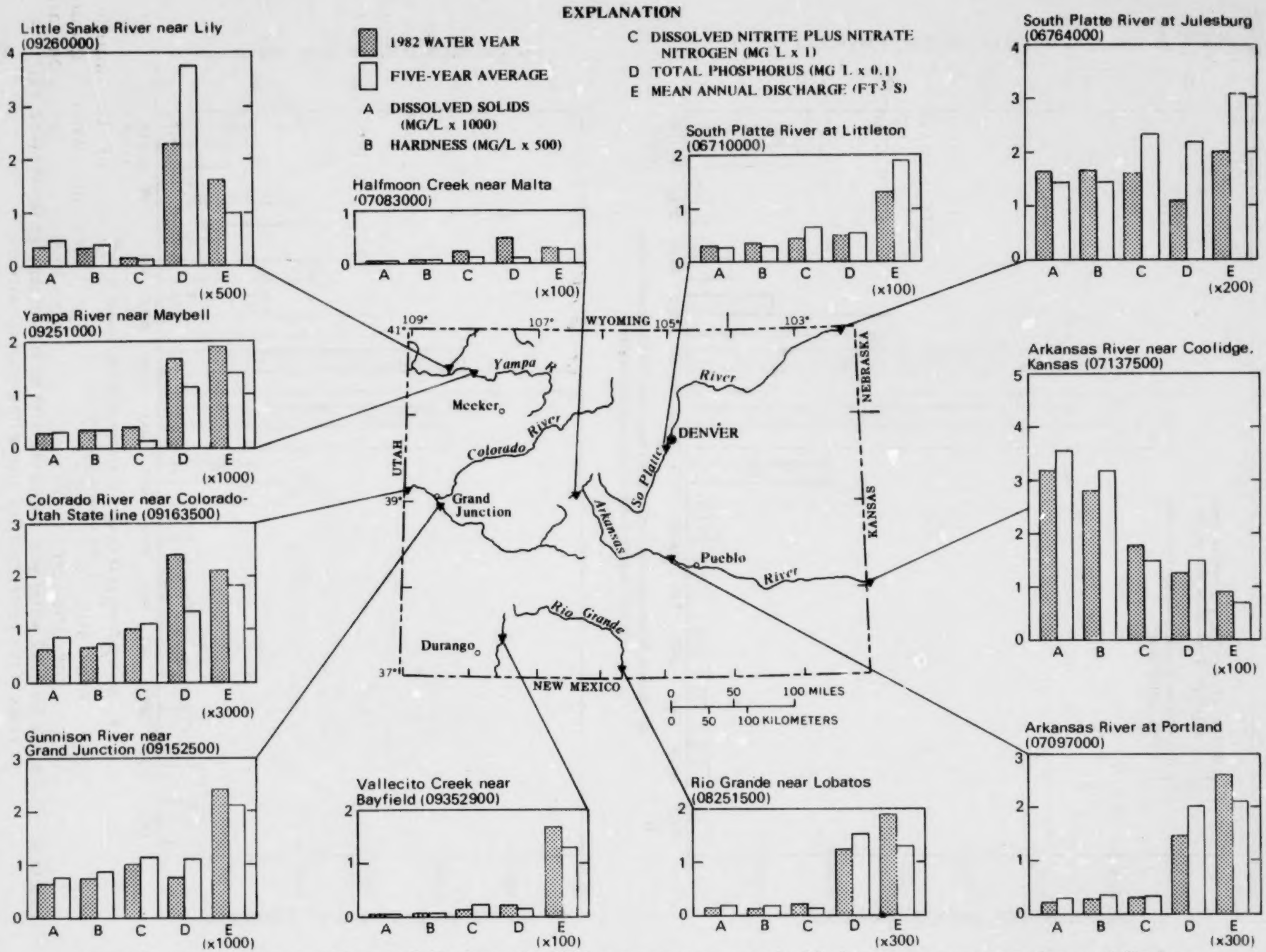


Figure 5.--Average concentrations and discharge for 1982 water year compared with the average concentrations and discharge for 1977-81 water years.

Chemical Quality of Streamflow--continued

As streams flow from high elevations to lower elevations in eastern and western Colorado, geological formation, and land-and water-use changes, such as an increase in sedimentary rock types, agricultural water-use and industrial and mining demands, interact to increase concentrations of dissolved chemical constituents. As evidenced by the graphical summaries in figure 5, average concentrations of dissolved chemical constituents are greater in eastern Colorado streams than in western Colorado streams and are least in mountain streams in central Colorado.

The fact that 1982 water-year average concentrations of dissolved constituents generally are lower than the previous 5-year average is consistent with dilution resulting from 1982 water-year flows that in most instances exceeded the previous 5-year average flow.

Chemical and suspended-material loading depends on both chemical concentration and water discharge. As shown in figure 5, streams flowing from western Colorado (09260000, 09251000, and 09163500) have higher mean annual discharges and lower average concentrations of dissolved solids than major streams (06764000 and 07137500) flowing from eastern Colorado. Based on 1982 water-year information contained in figure 5, western Colorado streams carried a dissolved load of approximately 12,000 tons per day compared to approximately 2,600 tons per day by eastern streams.

Ground-Water

Water levels indicate the response of the aquifer to recharge and discharge. Recharge and discharge can be either natural or man-made. Water levels will rise when recharge is plentiful and discharge is small and will decline when recharge is small and discharge is large. Water levels also are used to help define hydrologic units and their water-supply potential.

The aquifer systems within the State can be grouped into two catagories: unconsolidated aquifers and consolidated aquifers. The unconsolidated aquifers receive recharge from precipitation, return flow from irrigation, and leakage from canals and streams. Discharge of ground water may be as seepage to streams, seeps, or springs, by loss to evapotranspiration, or by withdrawal by wells. The consolidated aquifers receive recharge from precipitation and streams crossing outcrop areas. These aquifers primarily discharge water to springs and streams, although locally some discharge is by wells.

East of the Continental Divide, because of the substantial use of ground water by man, the major fluctuations are declines caused by pumping wells. West of the Divide, where withdrawal are small, the water-level fluctuations reflect mostly changes in natural conditions.

Ground water is being mined from the unconsolidated aquifers in the Northern High Plains and from the consolidated aquifers in the Denver Basin. The aquifers in the alluvial valleys in eastern Colorado have been affected by both surface-water irrigation and ground-water pumpage. Most of the aquifers in western Colorado are still under natural conditions except where ground water is being pumped for the production and development of oil, gas, coal and oil shale.

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting inch-pound units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Bacteria are microscopic unicellular organisms, typically spherical, rod like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2C° on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which the bottom of a streambed, lake, pond, reservoir, or estuary is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter (mg/L), necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area of volume of habitat.

Ash mass is the mass of amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and those for periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and the ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters. It represents a runoff of approximately 0.0372 inch from 1 square mile, or 0.3468 millimeter from 1 square kilometer.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic foot per second (cfs, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second, or 448.8 gallons per minute, or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to that material in a representative water sample which passes through a 0.45 μm membrane filter. This may include some very small (colloidal) suspended particles as well as the amount of substance present in true chemical solution. It is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved oxygen (DO) is the dissolved-oxygen content of water in equilibrium with air and is a function of atmospheric pressure and temperature and dissolved-solids concentration of the water. The capacity of water for dissolved-oxygen decreases as dissolved solids or temperature increase or as atmospheric pressure decreases. Dissolved-solids concentration has the least effect on dissolved-oxygen concentration. Photosynthesis and respiration may cause diel variations in dissolved-oxygen concentration in water from some streams.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is the physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

Table 2.--Factors for conversion of chemical constituents in milligrams or micrograms per liter to milliequivalents per liter

Ion	Multi-ply by	Ion	Multi-ply by
Aluminum (Al^{+3})*.......	0.11119	Iodide (I^{-1}).............	0.00788
Ammonia as N...........	.07139	Iron (Fe^{+3})*.............	.05372
Barium (Ba^{+2})..........	.01456	Lead (Pb^{+2})*.............	.00965
Bicarbonate (HCO_3^{-1})...	.01639	Lithium (Li^{+1})*..........	.14411
Bromide (Br^{-1}).........	.01251	Magnesium (Mg^{+2}).........	.08226
Calcium (Ca^{+2}).........	.04990	Manganese (Mn^{+2})*........	.03640
Carbonate (CO_3^{-2})......	.03333	Nickel (Ni^{+2})*...........	.03406
Chloride (Cl^{-1})........	.02821	Nitrate as N.............	.07139
Chromium (Cr^{+6})*.......	.11539	Nitrite as N.............	.07139
Cobalt (Co^{+2})*.........	.03394	Phosphate,ortho as P.....	.09686
Copper (Cu^{+2})*.........	.03148	Potassium (K^{+1})..........	.02557
Cyanide (CN^{-1}).........	.03844	Sodium (Na^{+1})............	.04350
Fluoride (F^{-1}).........	.05264	Strontium (Sr^{+2})*........	.02283
Hydrogen (H^{+1}).........	.99209	Sulfate (SO_4^{-2})..........	.02082
Hydroxide (OH^{-1}).......	.05880	Zinc (ZN^{+2})*.............	.03060

*Constituents reported in micrograms per liter; multiply by factor and divide results by 1,000.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined either by sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Table 3.--Factors for conversion of sediment concentration in milligrams per liter to parts per million*

[All values calculated to three significant figures]

Range of concentration in 1000 mg/L	Divide by	Range of concentration in 1000 mg/L	Divide by	Range of concentration in 1000 mg/L	Divide by	Range of concentration in 1000 mg/L	Divide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170 -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/mL and a specific gravity of sediment of 2.65.

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay..............	0.00024 - 0.004	Sedimentation
Silt..............	.004 - .062	Sedimentation
Sand..............	.062 - 2.0	Sedimentation or sieve
Gravel............	2.0 - 64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Periphyton is the assemblage of microorganisms attached to, and growing upon, solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton is a useful indicator of water quality.

Pesticide network is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per mL of sample.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 disintegrations per minute (dpm).

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Radiochemical network is a network of regularly sampled water-quality stations where samples are collected monthly or twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose and Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are natural uranium in µg/L (micrograms per liter), radium as radium-226 in PC/L (pCi/L, picocuries per liter), gross beta radiation as equivalent strontium/yttrium-90 or cesium-137 in PC/L, and gross alpha radiation as micrograms of uranium equivalent per liter (µg/L). Gross alpha and beta radioactivity associated with the fine-grained (silt and clay-sized) sediments in the samples are also determined.

Recoverable from bottom material the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft (0.09 m) above the bed) expressed as milligrams of dry sediments per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge in cfs times concentration in mg/L times 0.0027.

Suspended-sediment load is that quantity of suspended sediment passing a section in a specified period.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigating farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks and is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the number and specific chemical types of ions in solution and can be used for approximating the dissolved-solids content in the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Suspended, recoverable the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45 µm membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 µm membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the location of the thermograph.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the water year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Total the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total in bottom material the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total, recoverable the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Water year in the U.S. Geological Survey is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1981, is called the "1981 water year."

Weighted average is used in this report to indicate the discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WRD is an abbreviation for "Water-Data Report" in the summary REVISIONS paragraph to refer to State annual basic-data reports published prior to 1975.

WDR is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to State annual basic-data reports published after 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of gaging stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station and each partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and continuous-record gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station.

Gaps are left in the sequential allocation of numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 07083000, which appears just to the left of the station name, includes the 2-digit part number "07" plus the 6-digit downstream order number "083000." In this report the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are for Part 6 (Missouri River basin), Part 7 (Lower Mississippi River basin), and Part 8 (Western Gulf of Mexico basins). Records for Part 9 (Colorado River Basin) are in Volumes 2 and 3. All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

Irrigation-network stations are water-quality stations located at or near certain streamflow gaging stations west of the main stem of the Mississippi River. Data collected at these stations are used to evaluate the chemical quality of surface waters used for irrigation and the changes resulting from the drainage of irrigated lands. Prior to water year 1966, the data for these stations were published in the annual Water-Supply Paper series, "Quality of Surface Water for Irrigation, Western States."

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are: (1) To depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis, and (2) to detect and assess long-term changes in streamflow and stream quality.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 5-, 15-, 30- or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the U.S. Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by hydrologists and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the inside of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge are affected by the revisions, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given.

The type of gage currently in use, the datum of the present gage above mean sea level, referred to National Geodetic Vertical Datum; and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS."

Information pertaining to the accuracy of the discharge records, to conditions which affect the natural flow of the gaging station, availability of water-quality records, and reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance.

The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or minimum contents), and the minimum gage height, if it is significant, are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second (ft^3/s) during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in acre-feet (line headed "AC-FT"). In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations and at miscellaneous sites follow the information for continuous record sites. Data for partial-record discharge stations are presented in three tables. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

Accuracy of field data and computed results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good" means within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second (ft^3/s) for discharges of less than 1 ft^3/s; to tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. However, because all the effects cannot be measured or evaluated, satisfactory adjustments generally cannot be made. For some stations, available figures of diversions or change in contents of reservoirs are included as supplemental data. Even at those stations where adjustments can be made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations, such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Records of Discharge Collected by Agencies other than the Geological Survey

Records of discharge not published by the Geological Survey were collected at many sites in Colorado during the water year by the following agencies: City of Colorado Springs; Colorado Division of Water Resources; Forest Service, U.S. Department of Agriculture; City and County of Denver, Board of Water Commissioners; National Weather Service, Department of Commerce; and the Bureau of Reclamation.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Water samples for analyses usually are collected at or near streamflow-gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data, the period of daily record for parameters that are measured on a daily basis (such as, specific conductance, pH, dissolved oxygen, water temperature, sediment discharge), extremes for the period of daily record, extremes for current year, and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most methods for collecting and analyzing water samples are described in "U.S. Geological Survey Techniques of Water-Resources Investigations," which are listed on page 39.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling, as much as possible, consistent wth available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field determination of carbonate and bicarbonate in the laboratory.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967, the Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per liter (mg/L) and water temperatures in degrees Celsius (°C). In waters with a density of 1.000 grams per milliliter (g/mL), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/mL, values in parts per million should be multiplied by the density to convert to milligrams per liter. Temperature reported in degrees Celsius may be converted to degrees Fahrenheit by using table 3.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water Temperatures

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for surface-water stations. For stations where water temperatures are taken manually the water temperatures are taken at about the same time each day. Large streams have a small diel temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges. At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

Table 4.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*°C=5/9(°F-32°) or °F=9/5(°C)+32°.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per liter instead of milligrams per liter. See "Definition of Terms," and table 5 for converting English units to SI units.

The biological information includes qualitative and quantitative analyses of plankton, periphyton, Chlorophyll a and b, biomass and bottom organisms. Microbiological information includes quantitative identification of selected bacteriological indicator organisms.

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). Analysis of pesticides and organic substances in water are described by Goerlitz and Lamar (1967), Lamar, Goerlitz, and Law (1965), and Goerlitz and Brown (1972). The collection and analysis of aquatic, biological, and microbiological samples are described by Slack and others (1973).

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge. A blank in the daily mean concentration column of the suspended-sediment discharge table indicates the value in the sediment discharge column was estimated. A zero value in the sediment-discharge column when there are nonzero values in the mean discharge and mean concentration columns indicates the load is less than 0.005 ton per day.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the streams.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

WATER-SUPPLY PAPERS

The annual series of Water-Supply Papers that give information on quality of surface waters in Colorado are shown in the following table:

Table 5.--Water-Supply Paper numbers and parts, water years 1941-71

Year	Part 6	Part 7	Part 8	Part 9	Irrigation (1951-65)[a]
1941	942	942	942	942	----
1942	950	950	950	950	----
1943	970	970	970	970	----
1944	1022	1022	1022	1022	----
1945	1030	1030	1030	1030	----
1946	1050	1050	1050	1050	----
1947	1102	1102	1102	1102	----
1948	1132	1133	1133	1133	----
1949	1162	1163	1163	1163	----
1950	1187	1188	1188	1189	----
1951	1198	1199	1199	1200	1264
1952	1251	1252	1252	1253	1362
1953	1291	1292	1292	1293	1380
1954	1351	1352	1352	1353	1430
1955	1401	1402	1402	1403	1465
1956	1451	1452	1452	1453	1485
1957	1521	1522	1522	1523	1524
1958	1572	1573	1573	1574	1575
1959	1643	1644	1644	1645	1699
1960	1743	1744	1744	1745	1746
1961	1883	1884	1884	1885	1886
1962	1943	1944	1944	1945	1946
1963	1949	1950	1950	1951	1952
1964	1956	1957	1957	1958	1960
1965	1963	1964	1964	1965	1967
1966	1993	1994	1994	1995	----
1967	2013	2014	2014	2015	----
1968	2095	2096	2097	2098	----
1969	2145	2146	2147	2148	----
1970	2155	2156	2157	2158	----
1971	2165	[b]2166	[b]2167	[b]2168	----

[a] Annual series, "Quality of Surface Waters for Irrigation, Western States."
[b] In preparation.

Information about reports and other data on quality of water in Colorado may be obtained from the district office at the address given on the back of the title page of this report.

EXPLANATION OF GROUND-WATER-LEVEL RECORDS

Collection of Data

Only ground-water level data from a basic national network of observation wells are published herein. These water-level measurements are intended to provide a record of water-level changes in important aquifers.

The locations of wells are referenced by two systems. One system is based on latitude and longitude, and the second is based on the U.S. Bureau of Land Management system of land subdivision. The latitude and longitude grid system facilitates machine processing of data and plotting of data points.

The latitude and longitude grid system is used to provide the geographic location of each well. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude; N designates north; the next seven digits denote degrees, minutes, and seconds of longitude; and the last two digits are sequential numbers for wells within a 1-second grid, as shown below in figure 6.

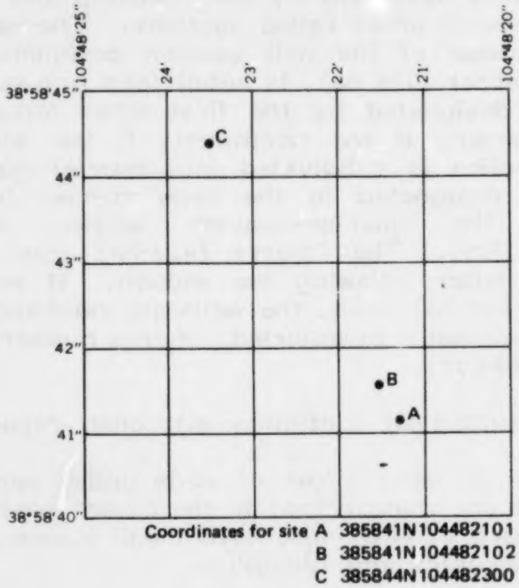

104°48'25"
24'
23'
22'
21'
104°48'20"
38°58'45"
44"
43"
42"
41"
38°58'40"
C
B
A
Coordinates for site A 385841N104482101
B 385841N104482102
C 385844N104482300

Figure 6.--System for numbering wells and miscellaneous sites (latitude and longitude).

The local well number locates a well within a 10-acre (4.0-ha) tract using the U.S. Bureau of Land Management system of land subdivision. The components of the local well number proceed from the largest to the smallest land subdivisions. This is in contrast to the legal description, which proceeds from the smallest to the largest land subdivision. The largest subdivision is the survey. Colorado is governed by three surveys: The Sixth Principal Meridian Survey (S), the New Mexico Survey (N), and the Ute Survey (U). Costilla County was not included in any of the above official surveys. This report follows the convention of the Costilla County Assessor in which the northern part of the county is governed by the Sixth Principal Meridian Survey and the southern part of the county is governed by a local system called the Costilla Survey (C). The first letter of the well location designates the survey.

A survey is subdivided into four quadrants formed by the intersection of the baseline and the principal meridian. The second letter of the well location designates the quadrant: A indicates the northeast quadrant, B the northwest, C the southwest, and D the southeast. A quadrant is subdivided in the north-south direction every 6 mi (10 km) by townships and is subdivided in the east-west direction every 6 mi (10 km) by ranges. The first number of the well location designates the township and the second number designates the range.

The 36-mi^2 (93-km^2) area described by the township and range designation is subdivided into 1-mi^2 (2.59-km^2) areas called sections. The sections are numbered sequentially. The third number of the well location designates the section. The section, which contains 640 acres (259 ha), is subdivided into quarter sections. The 160-acre (64.8-ha) area is designated by the first letter following the section: A indicates the northeast quarter, B the northwest, C the southwest, and D the southeast. The quarter section is subdivided into quarter-quarter sections. The 40-acre (16.2-ha) area is designated in the same manner by the second letter following the section. The quarter-quarter section is subdivided into quarter-quarter-quarter sections. The 10-acre (4.0-ha) area is designated in the same manner by the third letter following the section. If more than one well is located within the 10-acre (4.0-ha) tract, the wells are numbered sequentially in the order in which they were originally inventoried. If this number is necessary, it will follow the three-letter designation.

The local number is provided for continuity with older reports.

Measurements are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well insure that measurements at each well are of consistent accuracy and reliability.

Water-level measurements in this report are given in feet with reference to either mean sea level (msl) or land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

Publications

Publication of ground-water level data for the United States in water-supply papers was begun by the Geological Survey in 1935. From 1935 through 1939, a single water-supply paper covering the entire nation was issued each year (Water-Supply Papers 777, 817, 840, 845, and 886). From 1940 through 1974, separate water-supply papers were issued for six sections of the United States. Water-level data for Colorado are included in the water-supply papers listed below, each report containing one or more calendar years (January through December) of data. Data in this report are for the 12-month water year ending September 30.

Calendar year	WSP no.	Calendar year	WSP no.	Calendar year	WSP no.	Calendar year	WSP no.
1940	910	1945	1027	1950	1169	1955	1408
1941	940	1946	1075	1951	1195	1956-60	1760
1942	948	1947	1100	1952	1225	1961-65	1845
1943	990	1948	1130	1953	1269	1966-70	1980
1944	1020	1949	1160	1954	1325		

Information about reports and other data on ground water in Colorado may be obtained from the district office at the address given on the back of the title page of this report.

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DOLORES RIVER BASIN

09165000 DOLORES RIVER BELOW RICO, CO

LOCATION.--Lat 37°38'20", long 108°03'35", Dolores County, Hydrologic Unit 14030002, on left bank at upstream side of Montelores bridge northwest of State Highway 145 (relocated), at Dolores-Montezuma County line, 0.5 mi (0.8 km) upstream from Ryman Creek, and 4.0 mi (6.4 km) southwest of Rico.

DRAINAGE AREA.--105 mi² (272 km²).

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8,422.23 ft (2,567.096 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--31 years, 132 ft³/s (3.738 m³/s), 95,630 acre-ft/yr (118 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,120 ft³/s (60.0 m³/s) June 10, 1952, gage height, 6.15 ft (1.875 m); minimum daily, 7.0 ft³/s (0.20 m³/s) Nov. 16, 17, 1956, Feb. 6, 7, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1985 occurred Oct 5, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (23 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 29	1900	1,080	30.6	4.73	1.457	Aug. 25	0300	*1,610	45.6	5.19	1.582

Minimum daily discharge, 20 ft³/s (0.57 m³/s) Feb. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	59	36	28	28	27	32	270	850	610	102	185
2	52	61	36	26	28	28	32	308	843	475	106	165
3	104	61	34	26	26	27	30	392	808	416	104	161
4	97	60	34	26	24	27	34	408	766	370	90	159
5	100	59	36	26	24	27	38	384	759	330	83	258
6	91	59	36	28	22	32	37	304	696	280	80	176
7	84	60	36	26	22	32	36	282	640	258	80	159
8	93	56	36	24	22	29	35	276	696	240	81	221
9	84	50	36	24	22	24	36	288	731	238	77	228
10	76	48	34	26	20	24	41	291	752	225	75	212
11	79	51	34	26	22	26	59	297	731	218	77	249
12	86	47	33	28	22	27	111	246	745	200	81	304
13	94	47	33	28	22	26	152	218	794	192	109	300
14	94	47	33	26	22	26	198	200	696	178	165	297
15	98	44	32	26	22	26	240	202	598	172	123	372
16	103	45	32	24	22	25	243	190	580	161	130	368
17	96	43	32	24	22	24	240	205	628	150	130	312
18	91	43	32	26	22	24	240	220	675	163	114	320
19	91	36	32	26	22	24	228	243	647	156	104	285
20	88	39	32	24	24	24	212	261	526	138	152	267
21	83	42	32	24	27	22	183	368	532	128	130	238
22	80	40	30	24	29	24	167	465	510	118	148	212
23	76	39	28	24	30	24	156	465	510	118	162	192
24	75	40	26	24	29	25	144	430	538	121	848	174
25	71	39	26	24	27	29	152	490	586	114	1130	159
26	66	35	26	26	25	29	163	633	628	112	640	154
27	70	36	26	28	24	29	163	766	654	126	460	156
28	70	36	26	28	26	30	188	773	654	130	364	156
29	66	39	28	28	---	31	249	857	592	140	282	142
30	62	38	28	26	---	31	267	864	526	121	243	147
31	55	---	28	26	---	32	---	794	---	118	212	---
TOTAL	2511	1399	983	800	677	835	4106	12390	19891	6516	6682	6728
MEAN	81.0	46.6	31.7	25.8	24.2	26.9	137	400	663	210	216	224
MAX	104	61	36	28	30	32	267	864	850	610	1130	372
MIN	36	35	26	24	20	22	30	190	510	112	75	142
AC-FT	4980	2770	1950	1590	1340	1660	8140	24580	39450	12920	13250	13340

CAL YR 1981 TOTAL 34463 MEAN 94.4 MAX 654 MIN 12 AC-FT 68360
WTR YR 1982 TOTAL 63518 MEAN 174 MAX 1130 MIN 20 AC-FT 126000

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09166500 DOLORES RIVER AT DOLORES, CO

LOCATION.--Lat 37°28'16", long 108°30'15", in NE¼NE¼ sec.16, T.37 N., R.15 W., Montezuma County, Hydrologic Unit 14030002, on left bank 70 ft (21 m) downstream from bridge on State Highway 184 in Dolores and 0.4 mi (0.6 km) upstream from Lost Canyon Creek.

DRAINAGE AREA.--504 mi^2 (1,305 km^2).

PERIOD OF RECORD.--June 1895 to October 1903, August 1910 to November 1912, October 1921 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 859: 1937. WRD Colo. 1972: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,918.76 ft (2,108.832 m), National Geodetic Vertical Datum of 1929. See WSP 1713 or 1733 for history of changes prior to Oct. 7, 1952.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 2,000 acres (8.1 km^2) above station. Flow partly regulated by Ground Hog Reservoir, capacity, 21,710 acre-ft (26.5 hm^3/yr). Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--71 years (water years 1896-1903, 1911-12, 1922-82), 426 ft^3/s (12.06 m^3/s), 308,600 acre-ft/yr (381 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft^3/s (283 m^3/s) Oct. 5, 1911, gage height, 10.2 ft (3.11 m), site and datum then in use, from rating curve extended above 2,800 ft^3/s (79 m^3/s); minimum daily, 8.0 ft^3/s (0.23 m^3/s) Aug. 16, 1896.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1885, that of Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft^3/s (51 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 5	0500	*2,960	83.8	7.75	2.362	Aug. 25	0830	2,340	66.3	7.31	2.228
May 30	0230	2,910	82.4	7.71	2.350						

Minimum daily discharge, 45 ft^3/s (1.27 m^3/s) Dec. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	144	62	60	55	85	182	1690	2410	1260	263	375
2	72	154	45	55	50	90	174	1860	2370	1070	288	312
3	266	157	64	50	50	90	157	2540	2300	916	320	288
4	280	154	70	48	50	80	204	2390	2090	836	280	256
5	288	149	80	55	48	75	263	2600	2210	734	246	485
6	277	149	80	60	46	70	270	2020	2040	641	292	350
7	256	160	80	60	48	75	263	1720	1840	580	316	277
8	243	154	80	55	50	90	246	1620	1910	520	330	273
9	246	138	85	55	50	103	253	1600	1910	520	325	360
10	217	128	85	55	55	95	266	1570	1940	500	304	345
11	208	128	85	55	55	105	365	1590	1880	475	300	410
12	246	126	85	60	50	201	737	1410	1870	435	296	624
13	260	121	80	55	50	171	980	1290	1950	405	365	641
14	266	128	70	55	50	146	1140	1230	1790	380	490	641
15	256	121	65	50	55	141	1270	1330	1620	365	425	734
16	304	116	75	55	55	123	1330	1210	1490	335	400	782
17	273	107	56	55	55	121	1260	1200	1580	316	435	663
18	260	110	55	55	50	119	1290	1240	1630	308	385	614
19	253	91	60	55	55	112	1230	1460	1640	320	375	614
20	243	65	65	55	55	101	1100	1450	1390	284	415	548
21	230	93	70	55	60	85	908	1750	1330	308	415	490
22	217	95	65	55	70	87	800	2010	1300	300	475	440
23	204	90	55	48	80	101	734	2020	1270	292	455	385
24	198	91	46	48	90	103	696	1890	1240	304	1370	340
25	188	89	50	50	80	116	776	1870	1290	304	1860	308
26	176	72	55	50	80	144	868	2070	1310	304	1280	288
27	182	62	60	55	80	146	932	2510	1350	335	966	296
28	176	80	50	55	80	154	1000	2330	1360	395	800	345
29	179	85	55	55	---	182	1380	2550	1300	410	630	284
30	176	87	60	55	---	151	1560	2550	1160	330	505	300
31	144	---	60	55	---	136	---	2330	---	304	445	---
TOTAL	6846	3444	2053	1684	1652	3598	22634	56900	50770	14786	16051	13068
MEAN	221	115	66.2	54.3	59.0	116	754	1835	1692	477	518	436
MAX	304	160	85	60	90	201	1560	2600	2410	1260	1860	782
MIN	62	62	45	48	46	70	157	1200	1160	284	246	256
AC-FT	13580	6830	4070	3340	3280	7140	44890	112900	100700	29330	31840	25920

CAL YR 1981 TOTAL 85304 MEAN 234 MAX 1640 MIN 34 AC-FT 169200
WTR YR 1982 TOTAL 193486 MEAN 530 MAX 2600 MIN 45 AC-FT 383800

09168100 DISAPPOINTMENT CREEK NEAR DOVE CREEK, CO

LOCATION.--Lat 37°52'36", long 108°34'57", Dolores County, Hydrologic Unit 14030002, 0.2 mi (0.3 km) downstream from ford, 6.5 mi (10.5 km) southeast of Cedar, and 19 mi (31 km) northeast of town of Dove Creek.

DRAINAGE AREA.--147 mi² (381 km²).

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,420 ft (1,957 m), from topographic map.

REMARKS.--Records good except those for winter period and those for period of no gage-height record, which are poor. Several small reservoirs and and ponds above station. Small diversions for irrigation above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--25 years, 17.5 ft³/s (0.496 m³/s), 12,680 acre-ft/yr (15.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,270 ft³/s (206 m³/s) July 24, 1977, gage height, 13.38 ft (4.078 m), from rating curve extended above 250 ft³/s (7.1 m³/s), on basis of slope-area measurements at gage heights 7.18, 10.26, and 13.38 ft (2.188, 3.127, and 4.078 m); maximum gage height, 13.54 ft (4.127 m) July 13, 1965 (slope-area measurement); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 560 ft³/s (16 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
July 29	2000	596	16.9	5.68	1.731	Sept. 13	1830	614	17.4	5.70	1.737
Aug. 23	1500	*1,150	32.6	7.73	2.356						

Minimum daily discharge, 0.45 ft³/s (0.013 m³/s) Aug. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	5.5	2.2	1.6	1.5	6.0	20	64	96	23	4.0	7.5
2	37	5.5	1.8	1.6	1.2	7.5	17	72	99	20	3.3	4.1
3	19	4.9	2.0	1.6	1.4	10	15	121	92	18	3.6	3.3
4	7.0	4.6	2.2	1.3	1.3	7.5	22	124	90	15	3.1	23
5	5.8	4.6	2.6	1.4	1.3	6.5	28	142	94	14	4.1	32
6	6.0	4.3	2.6	1.7	1.0	5.5	25	101	83	14	1.9	10
7	5.2	5.5	2.6	1.8	1.1	4.6	23	80	67	12	.95	9.0
8	4.6	5.2	2.6	1.6	1.2	4.2	18	69	68	12	.95	8.0
9	4.3	4.6	2.6	1.3	1.4	4.2	18	65	67	8.8	.80	7.0
10	3.8	4.6	2.6	1.5	2.0	4.6	17	59	60	7.5	.45	6.0
11	6.2	4.6	2.6	1.5	2.8	16	28	60	58	5.8	.55	225
12	7.4	4.6	1.9	1.6	4.0	92	65	59	54	4.1	.55	74
13	18	4.3	2.1	1.6	5.0	30	58	67	54	3.8	23	172
14	5.2	4.1	1.6	1.5	6.5	25	57	65	54	3.3	28	52
15	19	3.8	1.9	1.4	9.0	30	61	78	47	2.4	39	26
16	39	3.6	1.8	1.4	13	21	60	68	43	2.4	16	26
17	8.5	3.3	1.7	1.4	17	17	53	65	42	1.9	16	22
18	7.5	3.6	1.4	1.3	13	14	56	56	44	1.6	65	21
19	7.2	3.1	1.6	1.5	10	13	50	60	40	2.1	24	21
20	7.5	3.3	1.8	1.5	7.9	13	41	54	37	2.4	19	17
21	6.9	3.8	1.2	1.6	7.5	11	36	60	32	2.6	17	52
22	6.3	3.3	1.2	1.4	8.5	11	34	69	30	1.4	28	17
23	5.8	2.6	1.2	1.2	7.5	10	33	75	28	.80	214	16
24	5.5	3.1	.90	1.1	8.0	10	31	76	28	3.1	50	15
25	5.2	2.6	1.0	1.1	14	10	32	76	28	2.9	34	14
26	5.5	2.6	1.4	1.2	10	13	35	83	27	1.5	58	14
27	5.8	2.4	1.6	1.4	7.5	14	37	99	25	.80	21	71
28	5.5	2.6	1.2	1.5	6.0	17	39	98	24	14	21	26
29	5.2	2.8	1.4	1.4	---	27	56	99	23	105	16	17
30	5.5	2.6	1.6	1.3	---	15	61	104	22	19	13	120
31	5.2	---	1.8	1.4	---	18	---	93	---	9.0	10	---
TOTAL	284.6	116.0	56.70	44.7	170.6	487.6	1126	2461	1556	334.20	736.25	1127.9
MEAN	9.18	3.87	1.83	1.44	6.09	15.7	37.5	79.4	51.9	10.8	23.8	37.6
MAX	39	5.5	2.6	1.8	17	92	65	142	99	105	214	225
MIN	3.8	2.4	.90	1.1	1.0	4.2	15	54	22	.80	.45	3.3
AC-FT	565	230	112	89	338	967	2230	4880	3090	663	1460	2240

CAL YR 1981 TOTAL 3437.82 MEAN 9.42 MAX 247 MIN .04 AC-FT 6820
WTR YR 1982 TOTAL 8501.55 MEAN 23.3 MAX 225 MIN .45 AC-FT 16860

NOTE.--NO GAGE-HEIGHT RECORD DEC. 23 TO FEB. 16.

09169500 DOLORES RIVER AT BEDROCK, CO

LOCATION.--Lat 38°18'37", long 108°53'05", in NW¼SW¼ sec.20, T.47 N., R.18 W., Montrose County, Hydrologic Unit 14030002, on right bank at upstream side of bridge, 0.4 mi (0.6 km) southeast of Bedrock, and 3.1 mi (5.0 km) upstream from East Paradox Creek.

DRAINAGE AREA.--2,024 mi^2 (5,242 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1917 to September 1922 (monthly discharge only for some periods, published in WSP 1313), August 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,940 ft (1,506 m), from topographic map. Prior to Aug. 1, 1971, nonrecording gage at different datum.

REMARKS.--Records good, except those for winter period, which are poor. Diversions above station for irrigation of about 5,000 acres (20 km^2) above station and about 33,000 acres (130 km^2) in the San Juan River basin.

AVERAGE DISCHARGE.--16 years (water years 1918-22, 1972-82), 465 ft^3/s (13.17 m^3/s), 336,900 acre-ft/yr (415 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,280 ft^3/s (263 m^3/s) Apr. 30, 1973, gage height, 12.09 ft (3.685 m), from floodmarks, from rating curve extended above 8,700 ft^3/s (250 m^3/s); no flow Sept. 13, 1974, Aug. 15 to 18, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 6, 1970, reached a stage of 7.15 ft (2.179 m), present datum, from floodmarks (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,110 ft^3/s (116 m^3/s) at 1200 Apr. 13, gage height, 8.26 ft (2.518 m); minimum daily, 3.8 ft^3/s (0.11 m^3/s) July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	17	85	48	60	133	134	1990	2120	638	50	168
2	13	17	89	44	60	133	107	2120	2180	638	30	84
3	32	18	75	42	60	148	107	2300	2130	590	22	59
4	367	18	69	44	60	170	120	3250	2030	431	19	44
5	428	18	66	46	60	170	117	2870	1800	362	16	84
6	58	17	56	46	55	154	398	3170	1840	315	9.2	126
7	94	18	51	42	50	127	622	2250	1640	193	6.4	50
8	50	19	38	34	60	109	606	1750	1440	176	21	29
9	40	26	36	40	75	100	574	1480	1450	110	68	25
10	28	23	39	50	85	104	566	1380	1450	69	23	92
11	19	20	33	55	90	115	598	1320	1500	56	11	120
12	27	19	32	60	85	138	908	1310	1450	41	8.7	410
13	58	19	31	55	75	215	2990	1160	1410	27	7.0	547
14	30	18	31	55	85	401	3210	1090	1480	19	9.2	925
15	233	18	28	55	95	332	3200	1100	1330	16	12	446
16	385	17	25	48	100	308	3070	1250	1160	17	14	461
17	184	26	29	48	100	290	2720	1120	1020	15	16	510
18	58	100	36	55	100	248	2380	1080	1060	13	20	461
19	30	107	48	55	89	232	2220	1060	1060	10	36	494
20	27	110	44	55	93	228	2080	1210	1100	9.8	48	581
21	22	112	42	55	97	218	1690	1220	925	7.6	34	486
22	19	100	40	55	98	185	1410	1420	775	5.9	40	371
23	17	68	38	55	106	162	1270	1740	755	4.2	112	332
24	17	90	40	48	107	144	1180	1760	694	4.0	120	280
25	17	112	42	48	107	144	1120	1590	658	4.2	656	230
26	17	100	50	48	129	114	1150	1530	698	3.8	1350	200
27	17	98	48	55	140	112	1240	1800	734	4.8	1020	471
28	19	96	44	60	142	154	1310	2240	840	48	714	398
29	19	87	50	60	---	208	1330	2080	780	91	478	248
30	18	72	46	60	---	162	1800	2360	742	113	345	210
31	17	---	48	60	---	174	---	2370	---	56	230	---
TOTAL	2369.8	1580	1429	1581	2463	5632	40227	54370	38251	4088.3	5545.5	8942
MEAN	76.4	52.7	46.1	51.0	88.0	182	1341	1754	1275	132	179	298
MAX	428	112	89	60	142	401	3210	3250	2180	638	1350	925
MIN	9.8	17	25	34	50	100	107	1060	658	3.8	6.4	25
AC-FT	4700	3130	2830	3140	4890	11170	79790	107800	75870	8110	11000	17740

CAL YR 1981 TOTAL 35775.38 MEAN 98.0 MAX 990 MIN .40 AC-FT 70960
WTR YR 1982 TOTAL 166478.60 MEAN 456 MAX 3250 MIN 3.8 AC-FT 330200

09169500 DOLORES RIVER AT BEDROCK, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1979 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1979 to current year.
WATER TEMPERATURES: November 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1979.

REMARKS.--Daily maximum and minimum specific-conductance and water-temperatures data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 4,790 micromhos July 12, 1981; minimum, 153 micromhos Sept. 20, 1982.
WATER TEMPERATURES: Maximum, 33.5°C Aug. 7, 1981; minimum, freezing point on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,680 micromhos Oct. 9; minimum, 153 micromhos Sept. 20.
WATER TEMPERATURES: Maximum, 31.5°C July 26; minimum, 0.0°C many days during November to February.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1890	1810	756	945	977							
2	1740	1930	767	855	918							
3	1320	1970	839	836	898							
4	1380	1970	833	862	940							
5	746	1910	817	909	978							
6	1810	1870	853	899	1030							
7	2190	1860	920	871	1060							
8	1910	1860	1030	1180	1100							
9	2390	1980	1130	1170	961							
10	1430	2090	1190	1010	928							
11	1340	1800	1350	1030	---							
12	1390	1810	1470	986	---							
13	1480	1850	1530	915	---							
14	1420	1870	1560	874	---							
15	1570	1830	1490	838	---							
16	1190	1800	1560	807	---							
17	1230	1740	1490	789	---							
18	1510	1800	1630	797	---							
19	1720	1370	1600	821	---							
20	1870	680	1750	816	---							
21	1840	625	1320	821	---							
22	1840	571	1060	826	---							
23	1810	590	1150	882	---							
24	1810	659	947	885	---							
25	1850	683	950	912	---							
26	1890	657	1040	959	---							
27	1860	661	976	931	---							
28	1980	678	882	898	---							
29	1890	715	970	910	---							
30	1820	785	1050	962	---							
31	1820	---	1040	939	---							

09169500 DOLORES RIVER AT BEDROCK, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.5	11.0	8.0	-1.5	-0.5	---	.5	---	.5	---		
2	15.5	14.0	9.0	-1.0	.0	---	.0	.0	.5	---		
3	15.5	12.5	9.0	-1.0	.5	---	.5	---	.5	---		
4	14.0	10.0	9.0	-1.0	.5	---	.5	---	.5	---		
5	14.0	9.0	7.0	-1.0	1.5	-0.5	.5	.0	.5	---		
6	17.0	10.0	7.5	-1.0	1.0	---	.5	.0	.5	---		
7	16.5	12.0	10.0	6.0	1.0	---	.5	---	.5	---		
8	16.0	13.0	10.0	-1.0	1.0	---	.5	---	1.0	.5		
9	16.5	10.5	8.5	-0.5	1.0	---	.5	---	1.0	1.0		
10	15.0	10.0	7.5	-0.5	1.0	---	.5	---	1.0	1.0		
11	13.0	11.0	8.0	-0.5	2.5	---	.5	---	---	---		
12	12.0	9.0	7.5	-0.5	3.0	---	.5	---	---	---		
13	12.0	9.0	7.5	.0	2.5	---	.5	---	---	---		
14	14.0	8.0	6.5	-0.5	1.5	---	.5	.0	---	---		
15	10.5	6.0	8.0	3.5	3.0	---	.5	.0	---	---		
16	9.0	5.5	8.0	.0	3.0	---	.5	---	---	---		
17	10.5	6.0	6.5	3.5	1.5	---	.5	---	---	---		
18	12.0	6.5	5.5	3.5	1.0	.0	.5	---	---	---		
19	12.5	6.0	4.5	2.0	1.5	.0	.5	.0	---	---		
20	11.5	6.5	3.5	1.0	2.0	.0	.5	.0	---	---		
21	11.5	5.5	4.5	1.5	1.5	---	.5	.0	---	---		
22	11.5	5.5	4.5	2.0	1.5	---	.5	.0	---	---		
23	11.0	5.0	5.0	2.0	.5	---	.5	.0	---	---		
24	7.0	5.0	5.0	1.5	.5	---	.5	.0	---	---		
25	9.5	-1.5	4.5	3.5	.5	---	.5	.0	---	---		
26	9.5	-2.0	4.0	1.5	.5	.0	.5	---	---	---		
27	9.0	-1.0	1.5	---	.5	.0	.5	.0	---	---		
28	7.0	5.5	1.5	---	.5	---	.5	.0	---	---		
29	8.5	6.0	2.0	---	1.0	---	.5	---	---	---		
30	7.5	-1.0	2.5	---	.5	---	.5	---	---	---		
31	7.5	-1.0	---	---	.5	.0	.5	---	---	---		

09171100 DOLORES RIVER NEAR BEDROCK, CO

LOCATION.--Lat 38°21'29", long 108°49'54", in SW¼NW¼ sec.2, T.47 N., R.18 W., Montrose County, Hydrologic Unit 14030002, on right bank 2.5 mi (4.0 km) downstream from West Paradox Creek and 4.3 mi (6.9 km) northeast of Bedrock.

DRAINAGE AREA.--2,145 mi² (5,556 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,910 ft (1,497 m), from topographic map. Prior to Feb. 1, 1972, at site 400 ft (120 m) upstream at datum 1.02 ft (0.311 m) higher.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 41,000 acres (170 km²), of which about 33,000 acres (130 km²) is in the San Juan River basin.

AVERAGE DISCHARGE.--11 years, 454 ft³/s (12.86 m³/s), 328,900 acre-ft/yr (406 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,500 ft³/s (269 m³/s) Apr. 30, 1973, gage height, 12.88 ft (3.926 m), from floodmarks; minimum daily, 0.12 ft³/s (0.003 m³/s) July 17, 18, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 6, 1970, reached a stage of 11.25 ft (3.429 m), site and datum in use prior to Feb. 1, 1972 (discharge, 5,710 ft³/s or 162 m³/s), by slope-area measurement at site 1,400 ft (430 m) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,430 ft³/s (125 m³/s) at 1500 Apr. 13, gage height, 9.80 ft (2.987 m); minimum daily, 11 ft³/s (0.31 m³/s) July 24-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	27	90	55	65	149	149	1900	2110	650	60	185
2	15	28	84	50	65	143	123	2070	2180	650	33	100
3	32	29	84	48	65	159	118	2220	2150	600	27	78
4	272	29	73	51	65	175	126	3410	2050	440	22	61
5	468	28	76	55	65	185	126	3070	1800	380	19	68
6	84	28	62	55	61	169	286	3350	1860	351	15	94
7	110	29	63	48	58	145	608	2300	1710	218	12	190
8	76	30	47	38	64	128	628	1800	1450	175	14	40
9	54	36	41	46	82	120	608	1510	1470	141	73	30
10	42	39	43	55	93	120	628	1440	1460	93	41	80
11	41	33	44	60	96	128	648	1370	1500	92	20	390
12	50	31	38	65	93	161	1050	1360	1450	61	15	500
13	74	31	38	60	81	225	3030	1200	1400	44	13	1000
14	52	31	35	60	92	399	3100	1110	1480	30	12	500
15	147	31	34	60	104	336	3280	1140	1370	23	19	470
16	498	30	35	55	105	306	3200	1280	1260	21	20	520
17	230	29	27	55	108	288	2800	1110	1050	21	20	470
18	104	86	41	60	108	245	2400	1020	1080	20	22	500
19	63	106	55	60	105	228	2240	975	1100	18	40	470
20	42	114	53	60	116	218	2100	1180	1150	16	62	510
21	37	116	50	60	122	208	1700	1150	940	15	56	660
22	33	111	46	60	122	182	1420	1390	780	13	42	411
23	28	88	44	55	123	167	1280	1750	770	12	122	339
24	26	88	46	55	123	147	1200	1770	700	11	112	298
25	26	118	48	55	124	141	1140	1610	660	11	719	242
26	25	112	55	55	134	132	1160	1540	700	11	1700	205
27	26	108	55	60	147	124	1250	1760	740	11	1150	465
28	28	106	50	65	151	143	1320	2300	860	20	775	508
29	28	102	56	65	---	198	1350	2080	790	111	512	280
30	29	90	53	65	---	167	1820	2400	750	130	372	215
31	27	---	55	65	---	171	---	2450	---	70	252	---
TOTAL	2781	1864	1621	1756	2737	5807	40888	55015	38770	4459	6371	9879
MEAN	89.7	62.1	52.3	56.6	97.8	187	1363	1775	1292	144	206	329
MAX	498	118	90	65	151	399	3280	3410	2180	650	1700	1000
MIN	14	27	27	38	58	120	118	975	660	11	12	30
AC-FT	5520	3700	3220	3480	5430	11520	81100	109100	76900	8840	12640	19590

CAL YR 1981 TOTAL 37931.1 MEAN 104 MAX 1100 MIN 3.6 AC-FT 75240
WTR YR 1982 TOTAL 171948.0 MEAN 471 MAX 3410 MIN 11 AC-FT 341100

09171100 DOLORES RIVER NEAR BEDROCK, CO--Continued
(Water-Quality Monitor)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1979 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1979 to current year.
WATER TEMPERATURES: December 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since December 1979.

REMARKS.--Daily maximum and minimum specific-conductance and water-temperature data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 83,300 micromhos Aug. 9, 1981; minimum, 116 micromhos May 22, 1980.
WATER TEMPERATURES: Maximum, 33.5°C July 10, 1981; minimum, -1.5°C several days during November to January 1981 water year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 59,600 micromhos Nov. 7; minimum, not determined.
WATER TEMPERATURES: Maximum, 32.0°C July 26; minimum, 0.0°C on several days during winter months.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	10600	2930	2600	3440	2950	1710	304	236	332	8250	318
2	---	24400	3520	2500	3150	3030	1750	265	236	396	8070	392
3	---	14200	3780	3720	3930	3040	1830	273	237	420	9760	675
4	3580	10300	4960	3560	3830	3010	1810	267	219	497	12700	1030
5	---	10200	4970	3220	3730	2990	1770	258	229	570	14200	1390
6	---	10200	6430	2400	4090	3040	1580	266	219	647	18100	1230
7	3120	23000	6680	3080	5090	3180	1240	280	210	1240	27200	1360
8	3690	48600	8940	8730	4820	3400	994	299	217	1880	23700	1540
9	4360	35100	10000	7010	3640	3580	828	309	225	2500	4830	1410
10	5590	17900	10400	4620	3370	3560	659	302	237	3260	5330	1630
11	6590	8140	9850	4460	3320	3200	581	306	245	3990	12800	1350
12	7190	8440	11100	3440	3200	2520	461	302	257	4790	20400	1110
13	5550	8770	11600	2830	4090	1750	400	298	257	5630	25200	1020
14	6040	8850	12200	2710	3530	1240	493	314	260	6640	30200	961
15	7600	8920	11300	2740	3000	1260	315	310	268	7730	18700	994
16	5980	8950	9690	2770	2610	1330	312	327	280	8770	11300	1030
17	5370	9270	11400	2850	2670	1400	292	327	280	9510	12400	1030
18	5660	3850	7770	2900	2500	1480	272	360	271	10200	11100	975
19	6920	2570	5080	2990	2700	1590	231	339	271	10900	7970	975
20	8470	1680	4960	2960	2560	1690	215	339	291	11200	4260	1020
21	9680	1600	3150	3280	2560	1780	225	338	274	11400	3730	1060
22	10700	1690	3380	3450	2590	1940	254	316	283	11700	5150	1090
23	11500	2210	8280	3750	2610	1960	259	282	298	11900	3300	1140
24	11900	2470	3040	3980	2680	1980	293	281	294	12300	2250	1200
25	11900	1480	4120	3980	2900	2000	336	280	323	12700	1630	1310
26	11800	1760	4360	4100	---	2010	332	282	332	13000	1590	1430
27	17500	7500	3780	3950	2900	2090	332	280	343	13300	1350	1540
28	34200	7400	4730	3510	2930	2050	328	256	322	13000	990	1640
29	11300	4730	4430	3780	---	1860	314	248	306	10700	799	1750
30	27600	2860	5300	3020	---	1750	304	240	299	9300	676	1840
31	29400	---	4250	3700	---	1710	---	238	---	8830	510	---
MEAN	10500	10300	6660	3630	3280	2270	691	293	267	7070	9950	1180

WTR YR 1982 MEAN 4620 MAX 48600 MIN 210

09171100 DOLORES RIVER NEAR BEDROCK, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	20.5	9.5	12.0	4.0	.0	.0	---	---	3.0	.0	8.0	4.5
2	17.0	14.5	12.5	5.0	1.5	.0	---	---	2.5	.0	9.0	6.5
3	17.0	12.5	12.5	5.0	1.5	.0	---	---	1.0	.0	10.0	5.5
4	13.5	11.0	12.5	5.0	2.0	.0	---	---	1.0	.0	8.0	4.5
5	14.5	10.0	10.5	5.0	3.0	.0	.0	.0	1.0	.0	8.0	3.5
6	19.0	10.0	11.0	5.5	3.5	.0	.0	.0	1.0	.0	8.5	2.0
7	18.5	11.5	13.5	8.0	4.0	.0	.0	.0	1.5	.0	6.5	2.5
8	17.5	13.0	13.0	6.5	3.0	.0	.0	.0	3.0	.0	9.5	3.5
9	18.5	10.5	12.5	5.5	2.5	.0	.0	.0	1.5	.0	12.0	3.5
10	18.0	10.5	11.0	4.5	2.0	.0	.0	.0	4.0	.0	11.0	5.0
11	14.0	11.5	11.5	5.0	5.0	.0	.0	.0	3.5	.0	8.5	6.5
12	15.0	10.0	11.0	4.0	4.5	.0	.0	.0	3.5	.0	13.0	7.0
13	15.0	10.0	11.0	4.5	4.5	.0	.0	.0	4.0	.0	11.0	5.0
14	16.0	9.0	9.0	6.0	3.5	.0	.0	.0	3.0	.0	9.0	7.0
15	13.0	10.0	11.5	4.5	4.5	.0	.0	.0	4.0	.0	7.5	6.0
16	11.5	7.0	11.5	5.0	4.5	.0	.0	.0	1.5	.0	8.5	5.5
17	13.0	8.5	8.5	4.0	3.0	.0	.0	.0	3.5	.0	8.5	4.5
18	15.0	8.0	7.0	3.5	.5	.0	.0	.0	5.0	.0	9.5	4.5
19	15.5	8.0	6.5	1.5	2.0	.0	.0	.0	5.5	.0	6.5	3.5
20	15.5	8.0	5.5	1.0	---	---	.0	.0	6.0	.0	6.0	2.0
21	15.0	7.0	5.5	1.0	---	---	.0	.0	6.5	.0	6.5	2.0
22	15.0	6.5	6.0	2.0	---	---	.0	.0	6.5	.0	8.0	1.0
23	14.5	6.5	6.5	1.5	---	---	.0	.0	5.5	1.0	9.5	2.0
24	10.0	6.5	6.5	1.0	---	---	.0	.0	7.0	1.0	10.5	2.5
25	13.0	5.0	5.5	3.0	---	---	.0	.0	10.5	4.5	11.5	3.5
26	13.0	4.5	5.5	1.0	---	---	1.0	.0	9.5	5.5	8.5	6.5
27	12.5	6.5	2.0	.5	---	---	2.0	.0	10.5	4.5	9.5	5.5
28	10.5	7.5	2.0	.5	---	---	2.0	.0	11.0	5.0	11.5	5.5
29	11.5	8.5	3.0	.5	---	---	2.0	.0	---	---	8.0	4.0
30	10.0	6.5	3.0	.0	---	---	2.5	.0	---	---	8.0	3.5
31	11.5	3.5	---	---	---	---	3.0	.0	---	---	11.0	4.0
MONTH	20.5	3.5	13.5	.0			3.0	.0	11.0	.0	13.0	1.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.0	5.0	13.0	11.0	15.5	12.5	19.0	15.5	31.0	20.0	25.0	18.5
2	11.0	2.5	13.5	11.0	15.5	13.0	20.0	15.0	28.0	21.0	26.0	17.5
3	13.5	4.0	14.0	12.5	16.0	13.0	21.5	16.0	28.0	19.5	26.0	17.0
4	13.5	6.0	13.0	12.5	15.0	13.0	22.0	16.5	29.0	17.5	24.0	18.0
5	13.5	5.5	12.5	11.0	15.0	13.0	21.5	17.5	30.5	18.0	25.5	18.5
6	10.0	7.0	10.5	9.5	15.5	12.5	22.5	16.0	31.0	17.5	25.0	18.0
7	9.5	6.0	11.5	9.0	15.5	12.5	22.5	16.0	31.0	19.5	23.0	17.0
8	8.5	4.0	12.0	9.0	16.0	13.0	23.0	18.0	28.0	19.5	23.0	15.5
9	9.5	4.5	11.5	9.5	16.5	13.5	25.5	18.0	28.5	19.5	25.5	17.0
10	10.5	4.5	11.5	9.5	16.0	14.0	28.0	17.0	27.0	19.5	23.0	17.5
11	11.0	6.5	11.0	9.0	17.5	14.5	26.5	18.0	27.5	19.5	18.5	17.0
12	11.5	8.5	10.0	9.0	17.5	15.0	30.5	18.0	26.5	19.0	19.5	15.0
13	10.0	7.5	11.0	8.5	16.5	15.0	28.5	19.0	25.5	19.5	16.5	11.0
14	9.0	7.5	12.0	7.5	17.0	14.0	29.5	17.5	30.0	19.0	12.0	10.0
15	9.0	8.0	12.0	9.0	16.5	14.0	28.5	17.5	29.0	18.5	14.5	10.0
16	9.0	7.5	13.0	10.0	18.5	14.0	28.0	17.5	28.5	18.0	16.0	12.0
17	9.0	7.5	15.0	10.5	18.5	15.0	29.0	20.5	27.5	18.5	17.0	13.5
18	10.0	7.0	15.5	12.5	17.5	15.5	28.5	19.5	29.5	17.5	18.0	15.0
19	9.0	7.0	15.0	13.0	17.0	14.0	27.5	19.5	29.0	17.5	18.0	13.0
20	8.0	6.0	16.0	12.0	17.5	13.0	31.0	18.0	29.5	19.0	19.0	14.0
21	8.0	5.0	16.5	13.0	18.0	15.0	30.5	19.5	31.0	21.0	19.5	12.5
22	8.5	6.0	16.5	13.5	18.5	14.5	29.5	18.5	30.0	20.5	20.5	15.5
23	8.0	6.5	15.0	13.5	18.0	14.5	29.0	19.5	27.5	21.0	21.5	16.0
24	10.0	6.5	14.5	13.0	19.5	14.5	29.0	19.0	28.0	20.5	20.0	15.0
25	10.5	6.5	16.0	13.0	19.0	15.0	28.5	18.0	22.5	19.5	20.0	16.5
26	11.0	8.5	16.0	12.5	20.0	15.0	32.0	20.0	20.0	19.0	22.0	18.0
27	11.5	8.0	15.5	13.5	20.5	15.5	31.5	21.0	20.5	18.0	17.5	14.0
28	12.0	9.0	16.0	13.5	20.5	16.5	31.0	21.0	20.5	18.0	15.0	12.0
29	12.0	9.5	15.5	12.5	19.5	15.5	29.5	20.0	22.5	18.5	15.5	12.0
30	13.0	10.0	15.0	13.0	18.5	16.0	29.0	20.5	24.0	19.5	14.0	12.0
31	---	---	15.0	12.0	---	---	31.5	20.0	24.0	19.5	---	---
MONTH	13.5	2.5	16.5	7.5	20.5	12.5	32.0	15.0	31.0	17.5	26.0	10.0
YEAR	32.0	.0										

09172500 SAN MIGUEL RIVER NEAR PLACERVILLE, CO

LOCATION.--Lat 38°02'05", long 108°07'15", in NW¼SW¼ sec.30, T.44 N., R.11 W., San Miguel County, Hydrologic Unit 14030003, on right bank 0.7 mi (1.1 km) downstream from Specie Creek and 4.0 mi (6.4 km) northwest of Placerville.

DRAINAGE AREA.--308 mi² (798 km²).

PERIOD OF RECORD.--January to December 1909, September 1910 to December 1912, April 1930 to September 1934, April 1942 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "at Placerville," 1910-12.

GAGE.--Water-stage recorder. Datum of gage is 7,055.80 ft (2,150.608 m) (U.S. Bureau of Reclamation bench mark). See WSP 1713 or 1733 for history of changes prior to Oct. 21, 1958.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 1,700 acres (6.88 km²) above station. One diversion from Fall Creek for irrigation of about 2,000 acres (8.09 km²) in Beaver and Saltado Creek basins. One small ditch diverts water from Leopard Creek to Uncompahgre River basin. Slight regulation by Lake Hope and Trout Lake of Western Colorado Co., combined capacity, 5,040 acre-ft (6.21 hm³). Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--46 years (water years 1911-12, 1931-34, 1943-82), 225 ft³/s (6.372 m³/s), 163,000 acre-ft/yr (201 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft³/s (283 m³/s) Sept. 5, 1909 (result of failure of Trout and Middle Reservoir Dams); minimum daily, 26 ft³/s (0.74 m³/s) Jan. 5, 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s (25 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 5	0500	1,050	29.7	4.28	1.305	Aug. 24	0700	*1,770	50.1	5.02	1,530
July 1	0700	1,410	39.9	4.71	1.436						

Minimum daily discharge, 48 ft³/s (1.36 m³/s) Feb. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	83	63	60	60	80	75	512	700	1220	380	295
2	92	90	65	55	60	90	74	554	732	1070	365	266
3	144	92	70	55	65	95	70	636	732	1020	370	250
4	115	108	70	55	60	90	75	584	700	970	320	242
5	118	112	75	60	60	80	83	772	780	870	274	290
6	112	115	75	60	55	75	78	548	740	708	262	258
7	108	118	75	60	55	75	76	464	716	684	246	238
8	112	112	70	60	50	65	75	440	764	628	266	266
9	110	110	70	55	50	70	95	425	836	684	258	295
10	105	112	70	60	48	75	100	415	950	700	246	274
11	102	112	70	60	50	81	118	415	940	676	254	300
12	108	118	70	60	50	86	186	420	940	652	254	420
13	112	92	70	60	55	86	258	410	980	620	305	430
14	110	92	65	60	50	85	335	446	940	578	400	410
15	112	86	65	60	50	80	395	554	828	608	315	395
16	126	85	70	60	55	78	390	566	828	560	310	385
17	115	83	65	60	55	69	375	518	950	548	300	385
18	110	85	68	60	50	69	415	482	940	542	274	390
19	108	83	65	60	55	68	410	470	860	482	266	385
20	102	92	70	60	55	66	350	440	772	464	295	360
21	100	92	70	55	60	59	315	458	772	452	278	380
22	100	90	65	55	65	61	330	488	740	440	345	335
23	98	83	59	55	70	62	310	506	740	476	440	315
24	95	76	60	55	70	63	310	530	796	512	1170	305
25	95	88	55	55	75	66	345	536	890	488	1180	270
26	90	76	60	60	75	69	370	554	940	458	890	286
27	92	81	60	65	75	69	395	644	1030	450	684	290
28	92	83	60	60	75	69	458	628	1120	430	584	278
29	92	88	60	60	---	75	518	700	1150	542	464	262
30	92	81	60	60	---	68	482	708	1020	452	390	246
31	85	---	65	60	---	66	---	660	---	385	360	---
TOTAL	3235	2818	2055	1820	1653	2290	7866	16483	25826	19369	12745	9501
MEAN	104	93.9	66.3	58.7	59.0	73.9	262	532	861	625	411	317
MAX	144	118	75	65	75	95	518	772	1150	1220	1180	430
MIN	83	76	55	55	48	59	70	410	700	385	246	238
AC-FT	6420	5590	4080	3610	3280	4540	15600	32690	51230	38420	25280	18850

CAL YR 1981 TOTAL 56988 MEAN 156 MAX 980 MIN 36 AC-FT 113000
WTR YR 1982 TOTAL 105661 MEAN 289 MAX 1220 MIN 48 AC-FT 209600

09177000 SAN MIGUEL RIVER AT URAVAN, CO

LOCATION.--Lat 38°21'26", long 108°42'44", in SW¼NE¼ sec.2, T.47 N., R.17 W., Montrose County, Hydrologic Unit 14030003, on right bank 20 ft (6 m) downstream from bridge on State Highway 141, 400 ft (120 m) downstream from Tabeguache Creek, and 1.5 mi (2.4 km) southeast of Uravan.

DRAINAGE AREA.--1,499 mi² (3,882 km²).

PERIOD OF RECORD.--August 1954 to September 1962, October 1973 to current year.

REVISED RECORDS.--WRD Colo. 1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,000 ft (1,524 m), from topographic map. Prior to Sept. 3, 1959, at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation of about 28,000 acres (113 km²) above station, and return flow from irrigated areas. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--17 years (water years 1955-62, 1974-82), 333 ft³/s (9.431 m³/s), 241,300 acre-ft/yr (298 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,690 ft³/s (189 m³/s) Apr. 19, 1958, gage height, 11.75 ft (3.581 m), site and datum then in use; minimum daily, 9.4 ft³/s (0.27 m³/s) Aug. 10, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 6, 1970, reached a stage of 12.6 ft (3.84 m), from floodmarks, discharge, 8,910 ft³/s (252 m³/s), by slope-area measurement at site 5.5 mi (8.8 km) downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (57 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 15	0400	2,120	60.0	6.36	1.939	Aug. 23	1930	* 4,540	129	8.18	2.493
May 5	1230	2,520	71.4	6.76	2.060	Sept. 20	1800	2,580	73.1	6.89	2.100

Minimum daily discharge, 50 ft³/s (1.42 m³/s) Dec. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	120	85	85	75	114	132	1260	1150	1170	384	348
2	92	124	85	80	70	124	152	1360	1170	1100	356	317
3	221	128	90	77	70	122	140	1730	1160	988	415	289
4	218	132	100	70	65	106	146	1700	1080	964	348	295
5	205	148	120	75	65	82	202	1960	1080	886	295	398
6	188	148	120	80	60	80	220	1510	1020	740	274	331
7	150	159	120	80	65	77	205	1170	970	670	274	283
8	142	161	120	75	70	77	185	1050	952	626	283	314
9	144	148	120	75	70	82	185	1010	934	655	384	380
10	136	152	120	80	70	136	205	904	1010	660	328	352
11	134	144	120	80	70	126	253	850	1040	655	310	470
12	140	148	120	85	65	138	596	850	1050	622	262	526
13	146	146	110	80	65	175	1280	916	1120	602	283	868
14	146	128	100	75	70	168	1460	916	1050	574	418	730
15	213	120	90	70	70	163	1620	1240	964	574	390	514
16	388	94	100	75	70	150	1520	1320	910	542	338	474
17	172	74	85	75	70	140	1380	1120	958	534	317	446
18	150	68	75	75	70	126	1430	982	1010	530	307	418
19	140	70	85	75	70	122	1520	952	1030	486	283	466
20	138	70	95	75	75	116	1130	910	976	462	268	637
21	132	87	100	75	85	106	898	922	910	446	295	432
22	130	134	90	70	95	97	868	976	904	426	314	387
23	126	114	70	65	110	103	976	1020	868	446	883	387
24	128	100	50	65	110	101	850	1040	910	486	965	356
25	130	110	71	70	110	101	970	1040	976	478	1200	334
26	128	100	76	70	100	114	1040	1010	1030	458	1120	331
27	122	110	76	75	100	128	1040	1120	1110	462	840	356
28	126	110	70	75	100	122	1180	1220	1210	470	725	408
29	128	110	74	70	---	140	1450	1270	1200	490	590	338
30	134	100	80	70	---	152	1330	1290	1050	482	494	304
31	134	---	85	75	---	124	---	1180	---	426	422	---
TOTAL	4747	3557	2902	2322	2185	3712	24563	35798	30802	19110	14365	12489
MEAN	153	119	93.6	74.9	78.0	120	819	1155	1027	616	463	416
MAX	388	161	120	85	110	175	1620	1960	1210	1170	1200	868
MIN	66	68	50	65	60	77	132	850	868	426	262	283
AC-FT	9420	7060	5760	4610	4330	7360	48720	71010	61100	37900	28490	24770

CAL YR 1981 TOTAL 63580 MEAN 174 MAX 805 MIN 39 AC-FT 126100
WTR YR 1982 TOTAL 156552 MEAN 429 MAX 1960 MIN 50 AC-FT 310500

NOTE.--NO GAGE-HEIGHT RECORD NOV. 24 TO DEC. 23, JAN. 6 TO FEB. 8.

09179200 SALT CREEK NEAR GATEWAY, CO

LOCATION.--Lat 38°31'59", long 108°58'13", in sec.3, T.49 N., R.19 W., Mesa County, Hydrologic Unit 14030004, on left bank 3.5 mi (5.6 km) upstream from mouth and 10 mi (16 km) south of Gateway.

DRAINAGE AREA.--31.2 mi^2 (80.8 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,220 ft (1,591 m), from topographic map.

REMARKS.--Records fair except for periods of no gage-height record, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,670 ft^3/s (75.6 m^3/s) July 12, 1981, gage height, 13.34 ft (4.066 m), result of slope-area measurement of peak flow; minium daily, 0.02 ft^3/s (0.001 m^3/s) Oct. 7, 1979, July 30, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,350 ft^3/s (38.2 m^3/s) at 1400 Sept. 4, gage height, 10.08 ft (3.072 m), from floodmarks; minimum daily, 0.02 ft^3/s (0.001 m^3/s) July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.09	.06	.08	.10	.12	.14	.36	.12	.10	.07	.12
2	.11	.09	.06	.06	.10	.12	.14	.41	.11	.10	.09	.12
3	.11	.09	.06	.06	.10	.17	.14	.36	.11	.10	.09	.12
4	.10	.09	.06	.06	.10	.12	.14	.36	.09	.10	.07	29
5	.10	.09	.07	.06	.08	.11	.14	.26	.07	.11	.07	.15
6	.10	.09	.07	.06	.07	.11	.12	.41	.05	.11	.08	.12
7	.10	.09	.07	.05	.06	.12	.12	.41	.03	.11	.49	.10
8	.10	.08	.07	.04	.07	.12	.12	.36	.05	.11	.11	.10
9	.10	.08	.07	.05	.08	.41	.31	.36	.10	.12	.11	.10
10	.10	.08	.07	.06	.08	.94	.46	.31	.09	.12	17	.14
11	.10	.08	.08	.07	.09	.60	.41	.31	.10	.12	.12	.97
12	.10	.08	.08	.08	.09	1.3	.46	.26	.10	.12	.12	.03
13	.10	.08	.08	.08	.10	.60	.46	.22	.11	.12	.40	10
14	.10	.08	.08	.08	.10	.60	.46	.17	.11	.12	.26	.09
15	.10	.08	.08	.09	.11	.55	.41	.12	.09	.11	14	.07
16	.09	.08	.08	.10	.11	.40	.41	.17	.09	.11	.10	.08
17	.09	.08	.09	.10	.11	.30	.41	.17	.11	.22	.09	.07
18	.09	.08	.09	.10	.12	.30	.22	.22	.12	.31	.26	.10
19	.09	.08	.09	.10	.12	.22	.17	.22	.09	.26	.26	.07
20	.09	.08	.08	.10	.12	.22	.22	.31	.07	.12	.12	.07
21	.09	.08	.08	.10	.12	.20	.26	.36	.05	.09	.22	.07
22	.09	.07	.08	.10	.12	.18	.36	.41	.06	.08	.22	.07
23	.09	.07	.08	.10	.12	.17	.36	.41	.07	.05	.17	.04
24	.09	.07	.08	.10	.12	.16	.36	.41	.07	.08	.12	.04
25	.09	.06	.08	.10	.12	.16	.31	.36	.08	.10	.12	.03
26	.09	.05	.08	.10	.12	.16	.36	.22	.08	1.1	.12	.08
27	.09	.06	.08	.10	.12	.16	.31	.22	.08	4.4	.12	14
28	.09	.06	.08	.11	.12	.16	.31	.22	.09	3.7	3.4	.10
29	.09	.06	.08	.12	---	.16	.46	.22	.09	.07	.12	.11
30	.09	.06	.08	.10	---	.16	.41	.22	.09	.02	.12	.10
31	.09	---	.10	.10	---	.16	---	.22	---	.05	.12	---
TOTAL	2.98	2.31	2.39	2.61	2.87	9.26	8.96	9.04	2.57	12.43	38.76	56.26
MEAN	.096	.077	.077	.084	.10	.30	.30	.29	.086	.40	1.25	1.88
MAX	.12	.09	.10	.12	.12	1.3	.46	.41	.12	4.4	17	29
MIN	.09	.05	.06	.04	.06	.11	.12	.12	.03	.02	.07	.03
AC-FT	5.9	4.6	4.7	5.2	5.7	18	18	18	5.1	25	77	112

CAL YR 1981 TOTAL 2538.38 MEAN 6.95 MAX 1000 MIN .05 AC-FT 5030
WTR YR 1982 TOTAL 150.44 MEAN .41 MAX 29 MIN .02 AC-FT 298

NOTE.--NO GAGE-HEIGHT RECORD OCT. 1 TO FEB. 25, SEPT. 4-30.

09179200 SALT CREEK NEAR GATEWAY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1978 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: February to September 1981, April 1982 to current year.
WATER TEMPERATURE: February to September 1981, April 1982 to current year.

INSTRUMENTATION.--Water-quality monitor from February 1981. Pumping sampler since February 1981.

REMARKS.--Previously unpublished data for 1979 and 1980 water years are published in this report.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 100,000 micromhos July 4, 1981; minimum, 1,000 micromhos July 8, 11, 1981.
WATER TEMPERATURE: Maximum, 35.0°C June 26, 1981; minimum, freezing point many days each winter.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 73,200 micromhos April 13; minimum recorded, 9,110 micromhos Aug. 13.
WATER TEMPERATURE: Maximum, 34.0°C July 21; minimum, freezing point on many days during April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)
APR								
08...	1300	.14	--	56000	8.5	8.0	7.7	3500
MAY								
17...	1400	.16	--	63100	8.4	21.0	6.2	3800
JUN								
18...	1200	.08	68000	67300	8.7	22.0	5.6	3900
JUL								
14...	1200	.12	--	63000	8.2	22.0	6.6	3500
27...	1600	36	--	41600	--	--	--	2900
AUG								
13...	1300	.28	60000	65800	8.2	22.0	5.7	3400
13...	1515	2.6	16000	16200	8.1	21.5	--	1700
15...	1630	266	--	3490	--	--	--	930
SEP								
10...	1500	.16	65000	63300	8.2	22.0	7.2	4100
13...	0900	89	--	2890	--	--	--	1100

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
APR									
08...	740	410	15000	110	560	190	2300	25000	.4
MAY									
17...	830	430	15000	105	530	190	2400	26000	.4
JUN									
18...	800	460	16000	112	770	183	2600	27000	.4
JUL									
14...	720	420	17000	125	650	183	2600	28000	.4
27...	720	270	10000	81	380	81	2400	17000	.4
AUG									
13...	730	390	16000	119	620	183	2400	28000	.4
13...	490	110	3000	32	120	72	1400	5300	.4
15...	310	38	390	5.6	22	269	630	690	.2
SEP									
10...	980	390	17000	116	570	174	2800	27000	.3
13...	370	38	220	2.9	16	82	910	420	.2

09179200 SALT CREEK NEAR GATEWAY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
APR								
08...	7.1	44100	60.0	16.7	.20	<.010	260	340
MAY								
17...	8.3	45300	61.6	19.6	.22	.020	310	280
JUN								
18...	12	47800	65.0	10.3	.26	.030	320	170
JUL								
14...	11	49500	67.3	16.0	.31	.020	340	190
27...	7.4	30800	41.9	2990	<.10	.050	150	30
AUG								
13...	10	48300	65.7	36.5	3.5	<.010	310	1100
13...	8.3	10500	14.3	74.0	.38	<.010	100	280
15...	12	2260	3.1	1620	.41	.040	40	130
SEP								
10...	10	48900	66.5	21.1	<.10	.400	250	2600
13...	6.4	2030	2.8	488	1.0	.090	30	10

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	57700	49600	46100	---	
2							---	57900	50600	47500	---	
3							---	59900	52400	48600	59400	
4							---	59500	53800	50000	51900	
5							---	62300	55300	51800	52400	
6							---	62800	56900	52800	54000	
7							---	63200	58700	53600	53700	
8							58000	64700	60400	54900	56200	
9							59300	64600	62000	57700	57600	
10							59500	64800	61300	55600	53700	
11							61000	65200	---	57000	53000	
12							64100	60500	---	58800	60100	
13							64800	62400	---	61100	37400	
14							62300	64800	---	66500	17100	
15							61200	65600	---	62700	---	
16							61800	65200	---	62100	---	
17							61800	48500	---	60400	---	
18							63300	38700	---	57400	---	
19							62900	36900	---	55600	---	
20							56600	35200	---	55100	---	
21							53100	36900	---	51600	---	
22							54200	38100	---	45000	---	
23							54800	39300	---	46000	---	
24							57400	40700	51500	44000	---	
25							54800	41100	45500	44200	---	
26							55100	41700	46600	40700	---	
27							55700	42400	48000	30000	---	
28							56500	43800	48000	39200	---	
29							59900	45300	49000	34200	---	
30							61200	46300	48900	---	---	
31							---	48400	---	---	---	
MEAN								52400		51400		

09179200 SALT CREEK NEAR GATEWAY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	19.0	7.5	23.5	7.5	25.5	14.0	32.5	14.0	25.5	15.5
2	---	---	22.5	6.0	26.5	8.0	29.0	10.0	23.5	18.5	24.0	15.0
3	---	---	25.0	10.0	28.0	9.0	29.0	9.5	30.0	16.0	27.0	15.5
4	---	---	21.0	7.5	24.0	6.5	27.0	9.5	29.5	13.0	---	---
5	---	---	20.5	4.0	22.0	6.5	22.5	12.5	32.5	13.5	---	---
6	---	---	21.5	1.5	26.0	5.5	29.5	9.0	32.0	12.5	---	---
7	---	---	18.5	3.5	23.0	5.0	25.5	10.0	33.0	15.5	---	---
8	---	---	19.5	6.5	26.0	6.0	28.0	16.0	30.5	17.5	---	---
9	16.0	1.0	16.5	6.5	26.5	7.0	28.5	14.5	30.0	16.5	---	---
10	18.0	.0	18.0	5.0	---	---	30.5	11.0	23.5	15.5	---	---
11	16.5	.5	19.0	7.0	---	---	27.0	11.5	25.5	18.5	---	---
12	20.0	6.0	16.0	7.5	---	---	29.5	12.0	22.5	19.0	---	---
13	20.5	4.0	19.5	6.5	---	---	30.5	13.0	24.5	19.0	---	---
14	20.5	2.0	22.0	5.0	---	---	31.5	15.5	28.0	18.0	---	---
15	20.5	2.5	20.5	6.5	---	---	28.5	12.5	30.0	16.0	---	---
16	18.0	2.0	21.0	5.5	---	---	28.0	11.5	22.0	20.0	---	---
17	19.0	.0	25.5	6.5	---	---	28.5	17.5	23.0	20.5	---	---
18	20.5	1.5	23.0	8.0	---	---	29.0	15.0	24.5	21.5	---	---
19	17.5	1.0	20.0	8.5	---	---	31.0	13.5	24.5	21.5	---	---
20	13.0	.0	24.0	7.0	---	---	33.0	13.5	25.5	22.5	---	---
21	19.5	.0	26.0	5.5	---	---	34.0	15.0	26.0	23.5	---	---
22	20.5	.0	25.0	7.0	---	---	33.5	16.0	25.5	24.0	---	---
23	15.0	6.0	25.5	10.5	---	---	32.5	17.5	25.0	23.0	---	---
24	22.0	4.5	26.0	9.5	30.5	10.0	33.5	17.0	25.5	23.5	---	---
25	21.5	3.0	26.5	7.5	28.0	11.5	32.5	16.5	24.5	22.5	---	---
26	17.5	6.0	28.5	7.5	30.0	10.5	34.0	18.5	22.5	21.5	---	---
27	21.0	5.5	23.0	11.0	33.0	11.5	24.5	21.0	22.0	20.0	---	---
28	23.5	3.5	26.0	9.5	29.0	12.0	24.5	20.0	21.5	20.0	---	---
29	19.0	5.5	21.5	8.5	27.0	10.5	25.5	20.0	24.0	17.0	---	---
30	19.0	4.0	22.5	7.5	29.0	15.0	30.0	18.5	24.0	18.0	---	---
31	---	---	27.0	6.0	---	---	33.0	15.0	22.5	16.0	---	---
MONTH			28.5	1.5			34.0	9.0	33.0	12.5		
YEAR	34.0	.0										

09235600 POT CREEK NEAR VERNAL, UT

LOCATION.--Lat 40°40'25", long 109°03'03", in SW¼NE¼SE¼ sec.1, T.2 S., R.25 E., Daggett County, UT, Hydrologic Unit 14040106, on left bank 0.2 mi (0.3 km) upstream from Colorado-Utah State line, 7 mi (11 km) upstream from mouth, and 29 mi (47 km) northeast of Vernal.

DRAINAGE AREA.--107 mi^2 (277 km^2).

PERIOD OF RECORD.--August 1957 to September 1982 (discontinued).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,900 ft (2,103 m), from topographic map.

REMARKS.--Records good. Flow regulated by Matt Warner and Crouse Reservoirs, 14 mi (23 km) and 7 mi (11 km) upstream, respectively, combined capacity, about 4,000 acre-ft (4.93 hm^3). Several diversions for irrigation above station, including one to Crouse Creek basin for irrigation of about 100 acres (405,000 m^2) in Browns Park.

AVERAGE DISCHARGE.--25 years, 1.81 ft^3/s (0.051 m^3/s), 1,310 acre-ft/yr (1.62 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 286 ft^3/s (8.10 m^3/s) Apr. 7, 1962, gage height, 3.65 ft (1.173 m), from rating curve extended above 170 ft^3/s (4.81 m^3/s); maximum gage height, 3.99 ft (1.216 m) Mar. 15, 1966 (backwater from ice); no flow for part of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40 ft^3/s (1.13 m^3/s) Apr. 26, gage height, 1.72 ft (0.524 m); no flow most of each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.10	.00	.00	.00	.94	3.6	20	.08	.00	.00	.00
2	.00	.09	.00	.00	.00	4.2	2.7	15	.06	.00	.00	.00
3	.00	.01	.00	.00	.00	2.7	2.3	11	.05	.00	.00	.00
4	.33	.00	.00	.00	.00	.79	2.4	4.8	.05	.00	.00	.00
5	.00	.00	.00	.00	.00	.44	1.7	2.8	.02	.00	.00	.00
6	.00	.06	.00	.00	.00	.28	1.7	2.0	.02	.00	.00	.00
7	.00	.05	.00	.00	.00	.25	1.7	1.6	.00	.00	.00	.00
8	.06	.00	.00	.00	.00	.22	1.5	1.5	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.48	1.3	1.2	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	1.2	1.2	1.4	.00	.00	.00	.00
11	.38	.00	.00	.00	.00	5.7	1.3	1.5	.00	.00	.00	.00
12	1.2	.00	.00	.00	.00	9.3	11	1.1	.00	.00	.00	.00
13	.64	.00	.00	.00	.00	2.5	9.8	.97	.00	.00	.00	.00
14	.14	.00	.00	.00	.00	2.1	9.1	.93	.00	.00	.00	.00
15	.12	.00	.00	.00	.00	12	7.8	.78	.00	.00	.00	.00
16	.65	.11	.00	.00	.00	5.0	4.0	.68	.00	.00	.00	.00
17	.26	.11	.00	.00	.02	3.4	2.9	.60	.00	.00	.00	.00
18	.11	.16	.00	.00	.04	3.1	2.5	.53	.00	.00	.00	.00
19	.03	.13	.00	.00	.06	3.4	2.1	1.0	.00	.00	.00	.00
20	.00	.23	.00	.00	.08	1.9	1.8	1.8	.00	.00	.00	.00
21	.00	.21	.00	.00	.12	1.6	1.5	.75	.00	.00	.00	.00
22	.00	.23	.00	.00	.14	1.4	1.4	.46	.00	.00	.00	.00
23	.00	.11	.00	.00	.14	1.4	1.7	.31	.00	.00	.00	.00
24	.00	.09	.00	.00	.19	1.6	2.3	.23	.00	.00	.00	.00
25	.00	.10	.00	.00	.26	2.4	5.5	.18	.00	.00	.00	.00
26	.00	.10	.00	.00	.31	3.0	34	.14	.00	.00	.00	.00
27	.00	.05	.00	.00	.36	3.1	36	.11	.00	.00	.00	.53
28	.00	.00	.00	.00	.49	6.7	30	.08	.00	.00	.00	.27
29	.35	.00	.00	.00	---	7.5	31	.07	.00	.00	.00	.23
30	.13	.00	.00	.00	---	3.2	28	.08	.00	.00	.00	.16
31	.12	---	.00	.00	---	3.5	---	.13	---	.00	.00	---
TOTAL	4.52	1.94	.00	.00	2.21	95.30	243.8	73.73	.28	.00	.00	1.19
MEAN	.15	.065	.000	.000	.079	3.07	8.13	2.38	.009	.000	.000	.040
MAX	1.2	.23	.00	.00	.49	12	36	20	.08	.00	.00	.53
MIN	.00	.00	.00	.00	.00	.22	1.2	.07	.00	.00	.00	.00
AC-FT	9.0	3.8	.00	.00	4.4	189	484	146	.6	.00	.00	2.4

CAL YR 1981 TOTAL 21.94 MEAN .060 MAX 5.1 MIN .00 AC-FT 44
WTR YR 1982 TOTAL 422.97 MEAN 1.16 MAX 36 MIN .00 AC-FT 839

09236000 BEAR RIVER NEAR TOPONAS, CO

LOCATION.--Lat 40°03'00", long 107°04'00", in NW¼ sec.20, T.1 N., R.86 W., Garfield County, Hydrologic Unit 14050001, on right bank just downstream from Yampa Reservoir Dam at Stillwater campground, 0.8 mi (1.3 km) downstream from Mandall Creek, 0.8 mi (1.3 km) upstream from Dome Creek, and 14 mi (23 km) west of Toponas.

DRAINAGE AREA.--23 mi² (60 km²), approximately.

PERIOD OF RECORD.--October 1952 to September 1965, October 1966 to current year. Published as Yampa River near Toponas prior to October 1973.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 9,700 ft (2,957 m), from river-profile map. Oct. 28, 1952, to Sept. 30, 1965, water-stage recorder at site 50 ft (15 m) upstream at different datum.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Flow regulated by Stillwater Reservoir, capacity, 6,200 acre-ft (7.64 hm³) 3.5 mi (5.6 km) upstream and Yampa Reservoir, capacity, 620 acre-ft (764,000 m³). Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--29 years, 39.6 ft³/s (1.121 m³/s), 28,690 acre-ft/yr (35.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 436 ft³/s (12.3 m³/s) July 2, 1957, gage height, 6.39 ft (1.948 m), site and datum then in use; minimum daily, 1.6 ft³/s (0.045 m³/s) Oct. 6-24, Nov. 18 to Dec. 8, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge unknown; minimum daily, 4.1 ft³/s (0.116 m³/s) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	11	13	12	11	9.8	20	81	310	85	36
2	12	12	11	13	12	12	9.8	26	72	290	80	36
3	11	11	11	13	12	11	9.8	31	68	270	67	35
4	11	11	10	13	12	11	9.8	35	70	260	64	34
5	12	11	10	13	12	10	11	27	82	250	61	34
6	19	11	11	13	12	10	10	22	84	250	60	35
7	16	11	11	12	12	9.8	11	21	84	240	58	34
8	4.1	11	11	12	12	11	11	20	90	260	57	34
9	9.4	11	11	11	12	10	11	24	96	240	56	34
10	11	11	11	11	12	9.8	11	25	100	220	56	34
11	11	11	11	11	13	9.4	11	25	105	220	54	34
12	13	11	11	11	12	11	13	27	115	210	52	34
13	13	11	11	11	12	10	13	25	120	200	50	34
14	13	11	12	11	12	9.8	13	21	130	190	48	34
15	12	11	12	12	12	9.8	13	19	125	180	47	35
16	14	11	12	12	12	9.8	12	19	140	170	48	33
17	13	11	12	11	12	11	12	19	180	160	48	31
18	12	11	12	12	12	10	11	20	175	150	48	31
19	12	11	11	11	11	10	11	25	170	150	45	31
20	12	11	11	11	11	9.8	11	25	200	140	45	32
21	11	11	13	12	11	9.8	11	26	190	140	43	31
22	11	11	13	14	11	9.8	11	34	200	132	43	30
23	11	11	13	14	12	9.8	11	44	190	132	42	30
24	11	11	13	13	11	9.8	13	52	190	133	41	30
25	11	11	12	12	11	9.8	14	60	180	137	39	30
26	11	11	12	11	11	9.8	14	67	210	133	39	31
27	11	11	12	12	11	9.8	14	80	230	132	39	30
28	11	11	12	12	11	10	14	85	270	133	38	30
29	12	11	12	12	---	11	15	86	290	121	38	30
30	13	11	12	12	---	11	16	88	270	101	38	32
31	12	---	13	12	---	10	---	80	---	93	37	---
TOTAL	366.5	332	360	373	328	316.8	357.2	1178	4507	5747	1566	979
MEAN	11.8	11.1	11.6	12.0	11.7	10.2	11.9	38.0	150	185	50.5	32.6
MAX	19	12	13	14	13	12	16	88	290	310	85	36
MIN	4.1	11	10	11	11	9.4	9.8	19	68	93	37	30
AC-FT	727	659	714	740	651	628	709	2340	8940	11400	3110	1940

CAL YR 1981 TOTAL 9906.5 MEAN 27.1 MAX 160 MIN 3.2 AC-FT 19650
WTR YR 1982 TOTAL 16410.5 MEAN 45.0 MAX 310 MIN 4.1 AC-FT 32550

NOTE.--NO GAGE-HEIGHT RECORD JUNE 14 TO JULY 20.

09238500 WALTON CREEK NEAR STEAMBOAT SPRINGS, CO

LOCATION.--Lat 40°24'29", long 106°47'11", in SW¼NW¼ sec.11, T.5 N., R.84 W., Routt County, Hydrologic Unit 14050001, on left bank, 0.4 mi (0.6 km) upstream from Beaver Creek, 0.6 mi (1.0 km) downstream from Storm King Creek, 4.5 mi (7.2 km) upstream from mouth, and 6.0 mi (9.7 km) southeast of Steamboat Springs.

DRAINAGE AREA.--42.4 mi² (109.8 km²).

PERIOD OF RECORD.--October 1920 to September 1922, monthly discharge only, published in WSP 1313. October 1965 to September 1973, flow of Highline Canal included. Annual maximum discharge, water years 1978-81. May to September 1982.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,050 ft (2,149 m), from topographic map. Prior to Oct. 1, 1965, water-stage recorder at site 0.2 mi (0.3 km) downstream at different datum. Supplementary water-stage recorder on Highline Canal, May 18, 1966 to Sept. 30, 1973. Operated as a crest-stage partial-record site, June 1978 to May 1982, at present site and datum.

REMARKS.--Records good. Diversion above station by Highline Canal from Beaver and Storm King Creeks for irrigation below station. No other diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,800 ft³/s (79.3 m³/s) June 15, 1921; minimum daily discharge 4.5 ft³/s (0.13 m³/s) Oct. 29, Nov. 7, 8, 1921, Aug. 28, 29, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period May to September, 1,650 ft³/s (46.7 m³/s) at 2030 June 17, gage height, 2.83 ft (0.863 m); only peak above base of 600 ft³/s (17 m³/s); minimum daily during period May to September, 9.7 ft³/s (0.27 m³/s) Sept. 4.

REVISIONS.--The maximum discharge for water years 1978-81 have been revised, as shown in the following table. They supersede figures published in WDR-CO-80-3 and WDR-CO-81-3.

Water Year	Date	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
1978	--	1,970	55.8	2.98	0.908
1979	--	1,460	41.3	2.73	0.832
1980	--	1,380	39.1	2.68	0.817
1981	--	1,120	31.7	2.51	0.765

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								.00	432	514	55	11
2								.00	440	417	51	11
3								.00	432	373	53	11
4								.00	480	347	48	9.7
5								.00	635	328	40	10
6								.00	635	380	34	11
7								.00	625	276	32	10
8								.00	677	245	28	13
9								.00	698	298	43	13
10								.00	729	240	40	11
11								.00	797	206	34	15
12								.00	905	202	32	25
13								.00	917	190	33	17
14								.00	832	182	53	27
15								.00	751	170	28	40
16								.00	867	156	23	23
17								.00	1150	145	22	13
18								.00	1030	138	29	12
19								.00	905	119	21	11
20								174	917	107	17	14
21								178	843	96	17	11
22								230	809	89	16	9.8
23								298	832	84	24	17
24								328	797	86	17	11
25								309	656	79	15	11
26								341	587	84	17	40
27								417	635	96	14	23
28								472	625	132	14	21
29								489	559	126	15	24
30								455	616	99	14	32
31								402	---	66	14	---
TOTAL								4093.00	21813	6070	893	507.5
MEAN								132	727	196	28.8	16.9
MAX								489	1150	514	55	40
MIN								.00	432	66	14	9.7
AC-FT								8120	43270	12040	1770	1010

09238900 FISH CREEK AT UPPER STATION, NEAR STEAMBOAT SPRINGS, CO

LOCATION.--Lat 40°28'30", long 106°47'11", in SE¼SE¼ sec.15, T.6 N., R.84 W., Routt County, Hydrologic Unit 14050001, on right bank 2.6 mi (4.2 km) upstream from mouth and 2.5 mi (4.0 km) east of Steamboat Springs.

DRAINAGE AREA.--25.8 mi^2 (66.8 km^2).

PERIOD OF RECORD.--October 1966 to September 1972, May to September 1982.

REVISED RECORDS.--WDR CO-71; 1967-70.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,150 ft (2,179 m), from topographic map.

REMARKS.--Records good. Diversions above station by Mount Werner Recreation area and City of Steamboat Springs for domestic use began in 1972 (see table below for figures of diversion). Natural flow of stream affected by storage in Fish Creek and Long Lake Reservoir.

AVERAGE DISCHARGE.--6 years (water years 1967-72), 69.6 ft^3/s (1.97 m^3/s), 50,430 acre-ft/yr (62.2 hm^3/yr), unadjusted for diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 1,110 ft^3/s (31.4 m^3/s) June 20, 1968, gage height, 3.14 ft (0.957 m); minimum daily, 0.01 ft^3/s (0.001 m^3/s) Aug. 7, 1972.

EXTREMES FOR CURRENT PERIOD.--May to September 1982; maximum discharge 758 ft^3/s (21.5 m^3/s) at 2000 June 17, gage height, 2.70 ft (0.823 m); minimum daily discharge 3.0 ft^3/s (0.085 m^3/s) Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								70	241	605	40	4.0
2								75	215	516	35	3.2
3								80	234	463	34	3.2
4								86	265	441	34	3.2
5								98	443	364	24	3.8
6								112	484	354	21	3.0
7								99	426	260	18	3.6
8								93	453	271	14	3.2
9								107	426	238	21	5.8
10								123	453	223	18	4.0
11								110	469	216	15	3.4
12								104	528	201	16	9.0
13								98	546	191	14	6.9
14								83	487	175	18	14
15								76	434	147	14	25
16								77	472	139	10	17
17								82	593	132	11	11
18								97	623	115	11	7.8
19								128	548	100	8.6	6.9
20								131	542	89	8.5	10
21								134	537	81	9.0	6.0
22								165	532	81	9.6	4.6
23								209	576	74	15	13
24								218	585	75	6.3	6.6
25								171	573	67	7.8	7.2
26								204	505	65	6.3	28
27								293	542	66	5.4	18
28								339	614	138	4.6	19
29								306	615	105	10	20
30								256	596	77	5.6	24
31								235	---	52	5.4	---
TOTAL								4459	14557	6121	470.1	294.4
MEAN								144	485	197	15.2	9.81
MAX								339	623	605	40	28
MIN								70	215	52	4.6	3.0
AC-FT								8840	28870	12140	932	584
a								136	220	280	234	154

a - ESTIMATED DIVERSIONS, IN ACRE-FEET, BY MOUNT WERNER PIPELINE AND CITY OF STEAMBOAT SPRINGS, FURNISHED BY COLORADO DIVISION OF WATER RESOURCES.

09239500 YAMPA RIVER AT STEAMBOAT SPRINGS, CO

LOCATION.--Lat 40°29'01", long 106°49'54", in NW¼NE¼ sec.17, T.6 N., R.84 W., Routt County, Hydrologic Unit 14050001, on right bank 30 ft (9 m) downstream from Fifth Street Bridge in Steamboat Springs and 0.6 mi (1.0 km) upstream from Soda Creek.

DRAINAGE AREA.--604 mi² (1,564 km²).

PERIOD OF RECORD.--May 1904 to October 1906, October 1909 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 764: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,695.47 ft (2,040.779 m), National Geodetic Vertical Datum of 1929. Prior to May 8, 1905, nonrecording gage at bridge 0.2 mi (0.3 km) upstream at datum 4.16 ft (1.268 m) higher. May 8, 1905, to Oct. 31, 1906, nonrecording gage on bridge 30 ft (9 m) upstream at datum 0.44 ft (0.134 m) higher. Mar. 8, 1910, to Sept. 11, 1934, water-stage recorder at present site at datum 0.44 ft (0.134 m) higher.

REMARKS.--Records good. Natural flow of stream affected by two diversions for irrigation to Egeria Creek in Colorado River basin, one diversion for irrigation from Trout Creek drainage to Oak Creek drainage, irrigation of about 19,700 acres (79.7 km²) above station, and by storage reservoirs. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--75 years, 465 ft³/s (13.17 m³/s), 336,900 acre-ft/yr (415 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,820 ft³/s (193 m³/s) June 14, 1921, gage height, 7.08 ft (2.158 m), present datum, from rating curve extended above 4,800 ft³/s (140 m³/s); minimum daily, 4.0 ft³/s (0.11 m³/s) Sept. 8, 1934, Sept. 10-13, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,300 ft³/s (122 m³/s) at 2400 June 17, gage height, 5.52 ft (1.682 m), only peak above base of 3,000 ft³/s (85 m³/s); minimum daily, 51 ft³/s (1.44 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	106	91	91	92	112	183	1210	2500	2380	368	136
2	53	105	89	91	89	120	187	1440	2490	2060	357	123
3	64	103	88	87	81	126	187	1670	2480	1820	380	115
4	90	105	104	82	79	123	217	1970	2530	1650	393	111
5	104	104	92	85	74	122	234	1810	2930	1460	347	107
6	96	104	89	83	86	118	226	1420	3160	1590	289	110
7	89	103	88	90	98	117	208	1220	2880	1270	250	115
8	86	105	88	90	101	116	187	1130	3040	1180	228	121
9	93	101	89	91	97	116	187	1190	2970	1230	254	126
10	89	95	89	92	100	119	189	1330	3020	1220	268	125
11	91	90	93	90	102	121	248	1330	2990	1040	256	125
12	100	88	95	90	97	131	445	1260	3210	961	247	139
13	99	89	95	88	81	132	495	1420	3200	889	243	143
14	110	94	95	85	89	134	649	1330	3110	812	294	155
15	108	93	97	83	96	143	891	1210	2860	735	258	170
16	121	93	101	81	91	153	911	1230	2990	645	232	156
17	126	92	98	86	93	151	784	1280	3520	585	214	132
18	117	94	90	79	92	147	895	1280	3770	561	223	116
19	105	88	92	81	90	139	901	1390	3410	507	204	107
20	104	78	94	81	87	151	661	1740	3300	455	189	110
21	103	88	90	80	91	156	570	1500	3110	415	183	106
22	99	95	103	82	97	150	814	1670	3030	375	180	102
23	93	97	99	77	99	152	911	1950	3030	348	187	112
24	97	90	96	79	103	155	1140	2210	3510	382	183	108
25	104	95	97	78	103	145	1330	2050	2820	365	163	98
26	103	89	92	78	104	135	1380	2090	2600	358	162	142
27	106	80	97	81	106	136	1270	2480	2590	402	162	140
28	109	82	97	77	112	138	1160	2770	2610	584	161	137
29	110	87	90	74	---	145	1160	2910	2450	564	167	141
30	110	87	86	66	---	198	1040	2770	2440	550	162	152
31	110	---	91	74	---	176	---	2510	---	425	151	---
TOTAL	3040	2820	2895	2572	2630	4277	19660	52770	88550	27818	7355	3780
MEAN	98.1	94.0	93.4	83.0	93.9	138	655	1702	2952	897	237	126
MAX	126	106	104	92	112	198	1380	2910	3770	2380	393	170
MIN	51	78	86	66	74	112	183	1130	2440	348	151	98
AC-FT	6030	5590	5740	5100	5220	8480	39000	104700	175600	55180	14590	7500

CAL YR 1981 TOTAL 93250 MEAN 255 MAX 1980 MIN 48 AC-FT 185000
WTR YR 1982 TOTAL 218167 MEAN 598 MAX 3770 MIN 51 AC-FT 432700

09241000 ELK RIVER AT CLARK, CO

LOCATION.--Lat 40°43'03", long 106°54'55", in NW¼NW¼ sec.27, T.9 N., R.85 W., Routt County, Hydrologic Unit 14050001, on left bank 30 ft (9 m) downstream from bridge on State Highway 129, 0.8 mi (1.3 km) north of Clark, and 2.0 mi (3.2 km) upstream from Cottonwood Gulch.

DRAINAGE AREA.--206 mi² (534 km²).

PERIOD OF RECORD.--May 1910 to September 1922 (published as "near Clark"), April 1930 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1733: 1956.

GAGE.--Water-stage recorder. Datum of gage is 7,267.75 ft (2,215.210 m) (State Highway Department bench mark). May 1910 to September 1922, nonrecording gage at site 30 ft (9 m) upstream at datum 0.15 ft (0.046 m) lower. Apr. 23, 1930, to Sept. 27, 1934, water-stage recorder at present site at datum 0.15 ft (0.046 m) lower.

REMARKS.--Records fair except those for winter period and those for period of no gage-height record, which are poor. Diversions above station for irrigation of about 230 acres (931,000 m²) above and about 460 acres (1.86 km²) below station. Natural flow of stream affected by storage in Lester Creek Reservoir (known also as Pearl Lake), capacity, 5,660 acre-ft (6.98 hm³) since 1963 and Steamboat Lake, capacity, 23,060 acre-ft (28.4 hm³) since 1968. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--64 years, 334 ft³/s (9.459 m³/s), 242,000 acre-ft/yr (298 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,470 ft³/s (127 m³/s) June 6, 9, 1912; minimum daily determined, 22 ft³/s (0.62 m³/s) Dec. 12, 1963, but a lesser discharge may have occurred during periods of no gage-height record prior to 1939.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft³/s (54 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 4	1800	2790	79.0	4.74	1.445	June 25	2200	* 3320	94.0	5.14	1.567

Minimum daily discharge, 48 ft³/s (1.359 m³/s) Jan. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	73	86	72	60	78	100	868	1310	1750	484	163
2	50	76	84	72	56	82	90	1010	1300	1670	463	156
3	56	76	84	68	54	84	87	1370	1250	1560	482	151
4	64	79	92	64	54	86	96	2040	1240	1520	431	144
5	74	73	88	66	50	82	93	1610	1350	1420	390	154
6	84	73	88	64	58	80	96	1310	1420	1330	359	143
7	82	79	88	70	68	78	97	1160	1330	1070	353	138
8	109	76	90	70	70	76	94	1180	1390	1070	342	138
9	115	72	93	70	68	76	95	1230	1300	1090	356	144
10	95	68	97	72	70	78	100	1230	1350	1020	335	135
11	94	67	95	70	72	80	112	1120	1350	1030	304	156
12	98	67	92	70	68	82	156	988	1370	1040	289	174
13	100	71	92	66	60	82	178	910	1380	1090	284	180
14	103	75	93	62	64	84	179	822	1490	1140	316	190
15	96	79	93	60	70	88	181	792	1390	1090	270	200
16	98	83	88	58	66	92	189	822	1550	979	253	190
17	94	84	88	62	68	88	188	822	1750	958	249	180
18	87	87	84	56	66	84	205	861	1760	916	236	180
19	85	85	86	58	64	80	211	938	1620	882	227	170
20	85	83	88	58	62	84	216	959	1620	828	220	170
21	81	97	80	56	64	88	232	931	1530	786	220	170
22	76	93	84	58	68	84	242	1080	1570	803	217	160
23	66	92	80	54	70	86	300	1230	1710	796	216	160
24	74	90	76	56	72	88	390	1360	1690	776	200	197
25	67	84	76	54	72	82	510	1280	1940	721	194	191
26	69	76	72	54	72	78	576	1290	1880	708	207	219
27	73	76	74	56	76	80	624	1530	1620	719	191	243
28	76	80	74	54	78	84	666	1620	1940	730	183	292
29	82	84	72	52	---	86	780	1390	1910	716	197	306
30	80	84	70	48	---	90	792	1460	1770	613	182	310
31	68	---	72	52	---	97	---	1440	---	520	170	---
TOTAL	2535	2382	2619	1902	1840	2587	7875	36653	46080	31341	8820	5504
MEAN	81.8	79.4	84.5	61.4	65.7	83.5	263	1182	1536	1011	285	183
MAX	115	97	97	72	78	97	792	2040	1940	1750	484	310
MIN	50	67	70	48	50	76	87	792	1240	520	170	135
AC-FT	5030	4720	5190	3770	3650	5130	15620	72700	91400	62160	17490	10920

CAL YR 1981 TOTAL 68846 MEAN 189 MAX 1500 MIN 43 AC-FT 136600
WTR YR 1982 TOTAL 150138 MEAN 411 MAX 2040 MIN 48 AC-FT 297800

NOTE.--NO GAGE-HEIGHT RECORD JAN. 23 TO MAR. 31.

09243700 MIDDLE CREEK NEAR OAK CREEK, CO

LOCATION.--Lat 40°23'08", long 106°59'33", in SW¼SW¼ sec.13, T.5 N., R.86 W., Routt County, Hydrologic Unit 14050001, on left bank 1.1 mi (1.77 km) above mouth of Foidel Creek and 13.5 mi (21.7 km) northwest of Oak Creek.

DRAINAGE AREA.--23.5 mi^2 (60.9 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1981, April to September 1982.

GAGE.--Water-stage recorder. Datum of gage is 6,720 ft (2,050 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--6 years (water years 1976-81), 3.03 m^3/s (0.086 m^3/s), 2,200 acre-ft/yr (2.71 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 172 ft^3/s (4.87 m^3/s) May 11, 1980, gage height, 3.21 ft (0.978 m) from rating curve extended above 45 ft^3/s (1.27 m^3/s); no flow many days each year.

EXTREMES FOR PERIOD APRIL TO SEPTEMBER.--Peak discharges above base of 15 ft^3/s (0.42 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 15	1815	22	0.62	2.04	0.622	May 13	0115	42	1.19	2.36	0.719
May 4	1915	* 48	1.36	2.45	0.747						

No flow Sept. 5-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							3.0	24	10	2.7	.82	.06
2							3.0	27	9.8	2.2	.64	.04
3							3.0	34	9.2	2.0	.70	.02
4							3.0	41	7.9	1.8	.76	.01
5							3.0	43	6.7	1.6	.55	.00
6							3.0	38	6.1	1.9	.43	.00
7							3.0	32	5.5	1.6	.31	.00
8							3.0	27	4.7	1.7	.31	.00
9							3.0	26	4.7	1.8	1.0	.04
10							3.0	29	4.1	1.8	1.5	.06
11							3.0	27	4.1	1.5	1.3	.14
12							5.0	29	3.8	.30	1.1	.32
13							10	39	3.7	1.1	.87	.36
14							16	31	3.4	1.0	1.1	.41
15							14	26	3.1	1.0	.80	.49
16							14	26	3.4	.84	.58	.37
17							12	25	3.0	.90	.80	.19
18							13	27	2.7	.90	1.9	.17
19							12	27	2.6	.78	.86	.15
20							11	30	2.5	.66	.53	.15
21							11	28	2.4	.72	.42	.18
22							10	25	2.5	.66	.38	.18
23							12	22	2.6	.60	.34	.18
24							15	21	2.4	.71	.26	.11
25							17	20	2.2	.71	.19	.16
26							19	19	3.2	.71	.23	.32
27							22	16	4.0	.71	.17	.40
28							20	14	3.8	1.1	.15	.48
29							23	12	3.5	1.6	.22	.56
30							21	12	3.0	1.3	.22	.49
31							---	11	---	1.0	.12	---
TOTAL							310.0	808	130.6	37.90	19.56	6.04
MEAN							10.3	26.1	4.35	1.22	.63	.20
MAX							23	43	10	2.7	1.9	.56
MIN							3.0	11	2.2	.30	.12	.00
AC-FT							615	1600	259	75	39	12

09243700 MIDDLE CREEK NEAR OAK CREEK, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1976 to September 1981 (discontinued).
WATER TEMPERATURES: April 1976 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor April 1976 to September 1981.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,880 micromhos May 29, 1981; minimum, 117 micromhos Aug. 10, 1978.
WATER TEMPERATURES: Maximum, 31.5°C July 31, 1976; minimum, freezing point on many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
JUN 03...	1050	9.5	480	450	8.5	11.5	--	240	57	23
JUL 20...	1000	.74	622	641	8.4	15.5	9.2	300	70	30
SEP 29...	1135	.88	760	761	8.5	9.0	10.2	350	82	36

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
JUN 03...	14	.4	2.4	189	80	2.7	.2	7.8	301	.41
JUL 20...	26	.7	3.2	257	81	3.0	.2	7.6	376	.51
SEP 29...	38	1.0	3.3	299	140	4.6	.2	8.0	493	.67

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)
JUN 03...	7.7	<.020	<.10	.060	.94	1.0	.070	.080	30	410
JUL 20...	.75	<.020	<.10	<.060	--	.60	.020	.020	50	570
SEP 29...	1.2	<.020	<.10	.090	.71	.80	<.010	.020	50	680

09243700 MIDDLE CREEK NEAR OAK CREEK, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	PHOS-PHORUS, TOTAL (MG/L AS P)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
APR									
14...	1830	15	550	--	8.0	--	9900	4	<1
MAY									
04...	1115	41	380	--	10.0	.620	14000	5	1
18...	1030	29	400	8.2	9.0	.203	2600	3	1

DATE	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
APR									
14...	21	5	19	15000	10	670	.1	1	90
MAY									
04...	27	7	23	24000	11	1000	.2	1	120
18...	11	3	6	4400	5	230	.1	1	30

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
APR					
14...	1830	15	847	34	77
MAY					
04...	1115	41	1340	148	--
18...	1030	29	290	23	--
SEP					
29...	1135	.88	24	.06	--

09243800 FOIDEL CREEK NEAR OAK CREEK, CO

LOCATION.--Lat 40°20'45", long 107°05'04", in NW¼SW¼ sec.31, T.5 N., R.86 W., Routt County, Hydrologic Unit 14050001, on right bank 2.3 mi (3.7 km) downstream from Reservoir No. 1, 6.9 mi (11.1 km) upstream from mouth, and 8.7 mi (14 km) northwest of Oak Creek.

DRAINAGE AREA.--8.61 mi² (22.30 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to Oct. 1981, April to September 1982.

GAGE.--Water-stage recorder. Altitude of gage is 6,880 ft (2,110 m), from topographic map.

REMARKS.--Records good. Numerous beaver dams above station.

AVERAGE DISCHARGE.--6 years (water years 1976-81), 0.74 ft³/s (0.021 m³/s), 536 acre-ft/yr (661,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55 ft³/s (1.030 m³/s) Apr. 21, 1980, gage height, 3.38 ft (1.030 m); no flow many days most years.

EXTREMES FOR CURRENT PERIOD.--Oct. 1981, April to September 1982: Maximum discharge, 16 ft³/s (0.453 m³/s) at 2100 April 14, gage height, 2.85 ft (0.869 m); no flow several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00						5.5	6.4	1.3	1.3	.02	.03
2	.00						5.7	6.6	1.6	1.5	.00	.18
3	.00						5.8	6.9	1.7	.77	.02	.20
4	.00						5.0	7.1	1.9	.41	.01	.20
5	.05						4.0	6.8	1.7	.35	.00	.18
6	.06						4.0	6.5	1.3	.56	.19	.20
7	.05						4.0	6.3	1.1	1.1	.07	.15
8	.05						3.9	6.0	1.3	1.3	.01	.14
9	.05						3.7	5.7	1.3	.95	.00	.13
10	.05						3.7	5.3	1.2	.77	.00	.10
11	.06						4.4	5.1	.90	.51	.00	.12
12	.08						8.4	5.0	.74	.36	.00	.13
13	.09						6.8	5.7	.62	.40	.03	.13
14	.09						7.9	5.1	.53	.68	.06	.16
15	.12						10	4.6	.57	.71	.02	.30
16	.16						6.6	4.4	.47	.38	.00	.28
17	.16						6.9	3.9	.43	.31	.02	.28
18	.16						8.0	3.5	.38	.30	.30	.16
19	.15						6.4	3.6	.42	.23	.28	.18
20	.15						5.2	3.5	.34	.21	.11	.17
21	.14						5.2	3.5	.33	.22	.14	.05
22	.14						5.8	3.2	.38	.49	.08	.26
23	.13						7.3	3.0	.36	.34	.07	.24
24	.14						7.6	2.8	.34	.23	.05	.20
25	.15						7.0	2.7	.62	.20	.04	.15
26	.14						7.3	2.8	.52	.18	.04	.20
27	.13						8.2	2.7	.41	.17	.03	.03
28	.13						7.1	2.5	.34	.19	.05	.12
29	.14						6.7	2.2	.33	.19	.04	.18
30	.14						6.4	1.8	.60	.14	.04	.16
31	.13						---	1.4	---	.07	.02	---
TOTAL	3.04						184.5	136.6	24.03	15.52	1.74	5.01
MEAN	.098						6.15	4.41	.80	.50	.056	.17
MAX	.16						10	7.1	1.9	1.5	.30	.30
MIN	.00						3.7	1.4	.33	.07	.00	.03
AC-FT	6.0						366	271	48	31	3.5	9.9

09243800 FOIDEL CREEK NEAR OAK CREEK, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1976 to September 1981, April 1982 to current year.
WATER TEMPERATURES: May 1976 to September 1981, April 1982 to current year.

INSTRUMENTATION.--Water-quality monitor since May 1976.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,410 micromhos Aug. 4, 5, 1981; minimum 200 micromhos Apr. 21, 22, 1980.
WATER TEMPERATURES: Maximum, 27.5°C July 11, 1980; minimum, 0.0°C during winter period when flowing each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, not determined; minimum not determined.
WATER TEMPERATURES: Maximum, not determined; minimum, not determined.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
APR										
13...	1630	9.4	690	--	--	12.0	--	--	--	--
14...	1645	7.8	720	660	8.1	12.5	9.6	320	68	37
MAY										
18...	1230	3.8	820	837	8.6	12.0	11.0	400	84	45
JUN										
04...	1245	1.8	1000	975	8.4	16.5	8.5	490	92	62
JUL										
20...	1315	.18	1260	1270	8.1	23.5	8.0	580	100	80
SEP										
29...	1325	.25	1350	1350	8.0	10.5	8.8	640	130	77

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
APR									
13...	--	--	--	--	--	--	--	--	--
14...	29	.8	4.3	160	230	3.7	.2	5.8	483
MAY									
18...	31	.8	3.7	200	250	4.5	.2	4.7	557
JUN									
04...	47	1.0	4.6	222	350	5.0	.2	4.4	732
JUL									
20...	62	1.3	6.2	278	450	6.4	.2	8.1	881
SEP									
29...	64	1.2	4.2	274	460	9.4	.2	10	920

09243800 FOIDEL CREEK NEAR OAK CREEK, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
APR									
13...	--	--	--	--	--	3300	--	120	--
14...	.66	10.2	2.0	.010	50	2500	30	90	37
MAY									
18...	.76	5.7	3.1	.020	60	300	< 9	70	39
JUN									
04...	1.0	3.6	7.6	.100	80	460	28	70	53
JUL									
20...	1.2	.43	.15	.030	110	1900	11	590	510
SEP									
29...	1.3	.62	< .10	.020	90	1300	22	670	570

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)
APR												
13...	1630	2600	--	1	--	< 1	--	11	2	6	--	< 1
14...	1645	2000	20	1	1	< 1	< 3	9	3	5	3	3
MAY												
18...	1230	270	< 10	1	1	< 1	< 3	--	--	8	4	3
SEP												
29...	1325	580	< 10	--	--	--	--	--	--	--	--	7

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
APR												
13...	--	.1	--	--	--	--	1	--	30	--	--	--
14...	1	.1	< .1	3	2	3	1	2	20	< 12	8.6	8.3
MAY												
18...	2	< .1	< .1	2	2	5	1	1	40	< 12	7.3	7.1
SEP												
29...	11	--	--	--	--	--	--	--	20	10	9.9	8.9

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
APR					
13...	1630	9.4	132	3.4	92
14...	1645	7.8	90	1.9	92
MAY					
18...	1230	3.8	22	.23	--
JUN					
04...	1245	1.8	46	.22	--
JUL					
20...	1315	.18	265	.13	--
SEP					
29...	1325	.25	63	.04	--

09243800 FOIDEL CREEK NEAR OAK CREEK, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	635	919	1130	---	1380
2							---	674	934	1210	---	1420
3							---	750	966	1240	---	1390
4							---	784	1010	1250	---	1370
5							---	835	1010	1240	---	1350
6							---	849	1010	1200	---	1330
7							---	833	1000	1220	---	1330
8							994	838	994	1240	---	1320
9							997	847	1010	1240	---	1320
10							995	854	1010	1240	---	1310
11							936	862	1010	1250	---	1300
12							582	855	1010	1260	---	1290
13							613	831	991	1270	---	1290
14							626	824	980	1280	1360	1280
15							536	824	972	1290	1360	1280
16							593	815	969	1290	---	1280
17							669	838	968	1300	1340	1300
18							616	838	968	1290	1300	1320
19							653	866	968	1300	1300	1330
20							807	860	971	1310	1320	1340
21							850	866	962	1320	1330	1350
22							802	874	955	1330	1330	1330
23							680	876	945	1340	1360	1340
24							644	880	953	1330	1360	1340
25							646	864	965	1330	1360	1330
26							641	871	1020	1340	1360	1320
27							629	893	1050	1350	1350	1320
28							629	935	1070	1340	1350	1310
29							626	933	1080	1320	1340	1310
30							647	930	1090	1330	1350	1340
31							---	929	---	---	1370	---
MEAN								844	992	1280		1330

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	15.5	7.0	17.0	11.5	23.5	17.5	28.5	14.5	23.0	13.5
2	---	---	17.0	7.5	19.0	10.0	24.5	15.0	---	---	22.0	13.0
3	---	---	16.0	10.5	18.0	11.5	26.5	14.5	28.5	16.5	22.5	13.0
4	---	---	13.0	10.0	19.5	10.0	24.0	12.0	29.0	16.5	18.5	13.5
5	---	---	13.5	7.5	19.5	11.0	24.5	8.0	---	---	19.0	15.0
6	---	---	12.5	5.5	19.5	9.5	23.0	8.0	27.0	17.0	21.0	12.0
7	---	---	11.0	6.0	20.5	9.5	23.5	14.0	27.0	16.5	18.5	13.5
8	---	---	14.5	7.5	19.0	10.5	22.0	15.5	26.0	15.5	17.5	11.0
9	10.0	1.5	16.0	8.0	21.0	9.0	19.5	15.0	---	---	21.0	11.5
10	11.5	2.0	16.0	8.0	19.5	10.5	23.5	13.5	---	---	17.0	13.0
11	12.0	4.5	13.0	8.5	21.5	12.0	25.5	13.5	---	---	15.0	12.0
12	7.5	1.0	13.0	8.5	19.5	12.5	27.5	9.0	---	---	17.5	10.0
13	12.5	1.5	9.0	6.5	20.5	12.0	26.0	11.0	---	---	13.5	10.5
14	12.5	2.5	10.0	6.0	19.5	12.0	26.5	15.5	25.5	16.0	11.0	9.0
15	11.5	1.5	14.0	5.0	20.5	11.5	26.0	15.5	27.5	16.5	16.5	9.0
16	9.5	1.0	13.0	8.0	24.0	11.5	23.5	11.5	---	---	18.0	10.0
17	11.5	1.5	15.5	7.5	25.5	12.0	29.0	11.5	24.0	15.5	17.5	12.0
18	11.5	2.0	15.0	8.0	22.5	14.5	---	---	24.5	16.5	17.0	11.0
19	6.0	1.5	14.5	9.0	25.5	11.5	---	---	26.0	17.5	15.5	10.5
20	7.0	1.0	14.0	9.5	25.0	8.0	---	---	25.0	16.5	17.0	11.0
21	10.5	.5	19.0	7.5	20.5	9.5	27.0	16.0	25.5	16.5	18.0	10.5
22	13.0	2.0	18.0	9.5	20.0	12.0	27.5	17.0	24.0	17.5	16.5	11.0
23	12.5	3.5	19.5	11.0	21.5	11.5	27.5	17.5	25.0	15.0	16.5	11.5
24	14.0	4.0	17.5	11.0	24.5	11.5	26.0	17.5	24.5	15.5	16.5	10.5
25	12.5	5.5	16.0	10.0	22.0	12.0	24.5	16.0	18.5	14.5	13.5	11.5
26	11.5	5.5	21.0	9.5	22.5	12.0	25.5	18.0	23.0	13.0	14.0	11.5
27	9.5	5.0	19.5	11.5	27.5	13.0	23.5	18.5	22.5	15.0	12.5	10.5
28	15.0	3.5	19.0	12.5	27.5	12.5	21.0	18.0	19.0	14.0	10.5	8.5
29	10.5	6.5	16.5	10.0	26.0	11.0	22.5	17.0	21.5	14.5	10.5	7.5
30	15.5	4.5	15.5	10.0	25.5	12.0	26.5	15.0	21.5	13.5	10.0	6.5
31	---	---	20.0	10.0	---	---	27.5	15.5	22.5	13.5	---	---
MONTH			21.0	5.0	27.5	8.0	29.0	8.0			23.0	6.5

09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO

LOCATION.--Lat 40°23'25", long 106°59'39", in SE¼SE¼ sec.14, T.5 N., R.86 W., Routt County, Hydrologic Unit 14050001, on left bank 0.9 mi (1.4 km) upstream from mouth and 13.6 mi (21.9 km) northwest of Oak Creek.

DRAINAGE AREA.--17.5 mi² (45.3 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1981, June to September 1982.

REVISED RECORDS.--WDR CO-78-3: 1976 (M), 1976.

GAGE.--Water-stage recorder. Altitude of gage is 6,730 ft (2,051 m), from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--6 years (water years 1976-81), 1.86 ft³/s (0.053 m³/s), 1,350 acre-ft/yr (1.66 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90 ft³/s (2.55 m³/s) Apr. 22, 1980, gage height, 5.18 ft (1.579 m); no flow many days each year.

EXTREMES FOR CURRENT PERIOD.--June to September: Maximum discharge, 12 ft³/s (0.34 m³/s) at 0130 Aug. 18, gage height, 2.65 ft (0.808 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									2.7	1.1	.08	.00
2									2.7	1.1	.03	.00
3									2.7	1.0	.02	.00
4									2.7	.95	.07	.00
5									2.6	.90	.02	.00
6									2.1	.85	.00	.00
7									1.7	.80	.00	.00
8									1.4	.70	.00	.00
9									1.3	.60	.00	.00
10									1.2	.55	.00	.00
11									1.2	.50	.00	.00
12									1.1	.40	.00	.00
13									1.1	.30	.00	.00
14									1.1	.25	.02	.00
15									1.1	.20	.01	.00
16									1.1	.15	.00	.00
17									1.1	.10	.01	.00
18									1.2	.05	3.3	.00
19									1.2	.02	.58	.00
20									1.3	.01	.20	.00
21									1.3	.00	.10	.00
22									1.4	.00	.07	.00
23									1.4	.00	.06	.00
24									1.4	.00	.02	.00
25									1.4	.01	.00	.00
26									1.4	.04	.00	.00
27									1.3	.01	.00	.00
28									1.3	.03	.00	.00
29									1.2	.09	.00	.00
30									1.2	.21	.00	.02
31									---	.19	.00	---
TOTAL									45.9	11.11	4.59	.02
MEAN									1.53	.36	.15	.001
MAX									2.7	1.1	3.3	.02
MIN									1.1	.00	.00	.00
AC-FT									91	22	9.1	.04

09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1976 to September 1981, June 1982 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1976 to September 1981.
WATER TEMPERATURE: April 1976 to September 1981.
SUSPENDED SEDIMENT DISCHARGE: April 1976 to September 1981.

INSTRUMENTATION.--Water-quality monitor since April 1976.

REMARKS.-- Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 3,520 micromhos Aug. 10, 11, 1980; minimum, 255 micromhos July 1, 1980.
WATER TEMPERATURES: Maximum, 28.5°C July 22, 1980; minimum, 0.0°C several days during winter period each year.
SEDIMENT CONCENTRATIONS: Maximum daily, 3,650 mg/L Apr. 2, 1981; no flow many days most years.
SEDIMENT LOADS: Maximum daily, 702 tons (637 t) Apr. 23, 1980; no flow many days most years.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
JUN 03...	1300	2.9	1200	1190	8.3	15.5	--	8.5	580	120	67
JUL 20...	1130	.01	1110	1140	8.7	19.5	15.3	2.1	480	83	67
SEP 29...	1245	.01	1620	1640	8.5	10.0	12.1	1.9	770	150	95

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
JUN 03...	63	1.2	4.0	247	460	7.6	.2	4.0	903	1.2	7.1
JUL 20...	73	1.5	3.6	185	440	8.3	.2	--	--	--	--
SEP 29...	100	1.6	6.7	310	640	13	.2	5.2	1200	1.6	.03

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	BORON, DISSOLVED (UG/L AS B)	STRONTIUM, DISSOLVED (UG/L AS SR)
JUN 03...	5.90	.060	6.0	.080	2.4	2.5	.040	.110	80	1700
JUL 20...	1.30	.050	1.3	.070	.73	.80	<.010	.020	70	1200
SEP 29...	--	<.020	.53	.120	1.3	1.4	<.010	.020	90	1700

09244410 YAMPA RIVER BELOW DIVERSION, NEAR HAYDEN, CO

LOCATION.--Lat 40°29'18", long 107°09'33", in NW¼SW¼ sec.9, T.6 N., R.87 W., Routt County, Hydrologic Unit 14050001, in bay of Colorado-Ute Electric Co. pumphouse on left bank 300 ft (91 m) downstream from U.S. Highway 40, 0.1 mi (0.2 km) upstream from Sage Creek, 0.5 mi (0.8 km) downstream from diversion point of Gibraltar Canal, and 4.7 mi (7.6 km) east of Hayden.

DRAINAGE AREA.--1,430 mi^2 (3,700 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to current year. Prior to October 1972, records included flow in Gibraltar Canal.

GAGE.--Water-stage recorder. Altitude of gage is 6,380 ft (1,945 m), from topographic map.

REMARKS.--Records good except those for winter period and those for period of no gage-height record, which are poor. Records show flow of river below Gibraltar Canal diversion. Natural flow of stream affected by diversions for irrigation of about 30,000 acres (121 km^2) above and 200 acres (809,000 m^2) below station, transbasin diversions, storage reservoirs, and return flow from irrigated areas.

AVERAGE DISCHARGE.--17 years, 1,043 ft^3/s (29.54 m^3/s), 755,700 acre-ft/yr (932 hm^3/yr); does not include flow in Gibraltar Canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft^3/s (467 m^3/s) Apr. 27, 1974, gage height, 11.90 ft (3.627 m), from rating curve extended above 12,000 ft^3/s (340 m^3/s); minimum daily, 5.1 ft^3/s (0.14 m^3/s) July 19, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,980 ft^3/s (169 m^3/s) at 0900 June 18, gage height, 8.52 ft (2.597 m); minimum daily, 130 ft^3/s (3.68 m^3/s) Dec. 3, 6-10 and Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	220	206	170	180	180	195	456	3350	4120	3800	1100	337
2	200	202	150	180	170	205	450	3890	4050	3500	1000	322
3	230	210	130	170	150	220	412	4530	3950	3000	900	301
4	270	202	150	160	140	210	512	5490	3770	2750	984	282
5	290	202	140	180	130	210	489	4450	4160	2600	802	277
6	254	198	130	170	150	205	524	3560	4660	2900	707	205
7	194	195	130	180	180	200	518	3290	4260	2500	630	167
8	187	198	130	180	180	200	456	3220	4440	2300	588	180
9	271	191	130	200	170	200	445	3380	4280	2500	602	194
10	236	191	130	210	180	210	450	3460	4340	2500	651	197
11	204	164	140	200	180	210	550	3440	4330	2400	602	200
12	220	159	150	200	170	230	1030	3320	4530	2300	560	256
13	232	168	150	190	160	240	1360	3010	4680	2200	554	274
14	244	179	150	180	170	250	1460	2800	4740	2100	630	297
15	248	179	160	170	180	260	2180	2530	4760	2000	588	341
16	262	183	170	170	170	280	2200	2450	4500	1900	500	376
17	275	177	165	190	180	270	1930	2570	5030	1900	483	305
18	257	184	150	170	170	260	2080	2610	5600	1800	489	263
19	231	177	160	180	160	240	1670	2870	4950	1800	461	241
20	211	162	170	180	160	270	1110	3110	4700	1750	434	244
21	219	165	160	180	160	280	1380	2980	4500	1700	423	253
22	215	189	180	190	170	270	1790	3240	4400	1600	412	248
23	196	190	170	170	170	295	2250	3670	4400	1450	417	243
24	196	180	170	180	180	300	2750	4140	5000	1400	395	256
25	211	187	170	180	180	300	2830	3990	4400	1300	395	274
26	203	170	160	180	185	335	2840	3710	4200	1200	355	322
27	211	140	180	190	185	365	2780	4310	4200	1050	364	376
28	203	150	180	170	195	439	2840	4790	4200	1400	359	413
29	218	160	170	150	---	524	2640	4700	3900	1350	378	495
30	234	160	160	140	---	445	2830	4550	3900	1300	383	512
31	222	---	180	160	---	385	---	4290	---	1200	347	---
TOTAL	7064	5418	4835	5530	4755	8503	45212	111700	132950	63450	17493	8651
MEAN	228	181	156	178	170	274	1507	3603	4432	2047	564	288
MAX	290	210	180	210	195	524	2840	5490	5600	3800	1100	512
MIN	187	140	130	140	130	195	412	2450	3770	1050	347	167
AC-FT	14010	10750	9590	10970	9430	16870	89680	221600	263700	125900	34700	17160

CAL YR 1981 TOTAL 211490 MEAN 579 MAX 4810 MIN 49 AC-FT 419500
WTR YR 1982 TOTAL 415561 MEAN 1139 MAX 5600 MIN 130 AC-FT 824300

NOTE.--NO GAGE-HEIGHT RECORD JUNE 20 TO AUG. 3.

09244410 YAMPA RIVER BELOW DIVERSION, NEAR HAYDEN, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1975 to September 1982 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) (90095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
NOV 04...	1145	221	240	250	7.9	4.5	10.7	97	25	8.3
DEC 04...	1130	150	270	278	7.7	.0	11.2	110	28	9.1
JAN 12...	1340	200	260	253	7.1	.0	8.4	100	27	8.3
FEB 16...	1100	170	320	316	7.1	1.0	8.2	130	31	12
APR 06...	1215	551	600	600	7.8	4.0	10.8	230	51	26
MAY 12...	1300	3140	165	169	7.8	7.0	9.3	72	19	5.9
JUN 23...	1250	5050	69	70	--	9.0	9.6	29	7.8	2.3
JUL 22...	1030	1280	85	94	7.3	16.0	8.0	37	10	3.0
SEP 30...	1035	473	180	180	8.1	7.5	9.7	71	19	5.7

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)
NOV 04...	19	.9	1.8	86	28	11	.2	6.2	151	.21
DEC 04...	18	.8	1.9	90	41	8.7	.2	9.6	171	.23
JAN 12...	18	.8	2.0	95	34	9.0	.3	12	168	.23
FEB 16...	23	1.0	2.6	110	59	10	.3	13	217	.30
APR 06...	36	1.1	3.0	130	180	8.0	.1	8.9	391	.53
MAY 12...	6.7	.4	1.5	56	22	2.0	.1	11	102	.14
JUN 23...	3.9	.3	.9	28	9.0	1.4	.1	7.1	49	.07
JUL 22...	5.5	.4	.9	37	12	1.8	.1	6.9	63	.09
SEP 30...	8.3	.5	1.5	62	21	3.6	.2	8.6	105	.14

09244410 YAMPA RIVER BELOW DIVERSION, NEAR HAYDEN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)
NOV 04...	90.1	<.09	.070	.39	.46	--	.040	77	4.4	.3
DEC 04...	69.3	--	--	--	--	--	--	60	--	--
JAN 12...	90.7	.24	.170	.47	.64	.88	.040	47	--	--
FEB 16...	99.6	.54	.130	.97	1.10	1.6	.080	50	4.5	.4
APR 06...	582	.85	.070	.62	.69	1.5	.060	33	--	--
MAY 12...	865	.13	.120	.74	.86	.99	.120	40	6.7	1.0
JUN 23...	668	<.10	.110	.79	.90	--	.080	97	5.8	.4
JUL 22...	218	<.10	.060	.74	.80	--	.030	81	--	--
SEP 30...	134	<.10	.210	.69	.90	--	.040	290	5.5	.5

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
NOV 04...	150	1	<10	<1	<10	5	4
MAY 12...	1000	1	10	<1	10	8	1

DATE	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV 04...	20	40	.1	2	1	<1	20
MAY 12...	10	60	<.1	<1	3	<1	20

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV 04...	1145	221	8	4.8
DEC 04...	1330	150	11	4.5
JAN 21...	--	180	14	6.8
FEB 16...	1100	170	6	2.8
APR 06...	1215	551	50	74
MAY 12...	1310	3150	65	553
JUL 22...	1030	1280	33	114
SEP 30...	1035	473	17	22

09244415 SAGE CREEK ABOVE SAGE CREEK RESERVOIR, NEAR HAYDEN, CO

LOCATION.--Lat 40°23'01", long 107°11'34", in NE¼NW¼ sec.19, T.5N, R.87W., in Routt County, Hydrologic Unit 14050001, on right bank 0.8 mi (1.3 km) upstream from Sage Creek Reservoir and 8.5 mi (13.7 km) south of Hayden.

DRAINAGE AREA.--4.17 mi² (10.8 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1981 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,220 ft (2200 m), from topographic map. Prior to June 4, 1982, at datum 1.00 ft (0.30 m) higher.

REMARKS.--Records fair except for period of no gage-height record, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12 ft³/s (0.34 m³/s) June 3, 1981, gage height, 1.13 ft (0.387 m), May 4, 1982, gage height 1.26 ft (0.384 m), datum then in use; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12 ft³/s (0.34 m³/s) at 1300 May 4, gage height, 1.26 ft (0.384 m) datum then in use; maximum gage height, 2.38 ft (0.725 m), at 1030 Nov. 27 (backwater from ice), datum then in use; no flow several days in Oct. and Sept.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.03	.07	.01	.01	.01	.10	5.5	1.8	.42	.13	.00
2	.00	.02	.07	.01	.01	.02	.10	6.2	1.7	.37	.07	.00
3	.00	.02	.07	.01	.01	.02	.10	7.8	1.8	.37	.07	.00
4	.00	.02	.07	.01	.01	.01	.10	11	1.7	.33	.07	.00
5	.00	.01	.07	.01	.01	.01	.10	9.6	1.4	.33	.07	.00
6	.00	.01	.07	.01	.01	.01	.10	7.3	1.2	.42	.07	.02
7	.00	.01	.07	.01	.01	.01	.10	5.8	1.2	.33	.07	.01
8	.00	.01	.07	.01	.01	.02	.10	5.8	1.2	.33	.07	.01
9	.00	.02	.07	.01	.01	.01	.10	5.2	1.2	.33	.10	.01
10	.00	.02	.07	.01	.01	.02	1.0	5.7	1.1	.28	.13	.03
11	.00	.02	.07	.01	.01	.03	1.5	5.6	1.0	.24	.13	.07
12	.01	.02	.07	.01	.01	.02	1.4	5.2	.94	.24	.10	.07
13	.01	.01	.07	.01	.01	.02	1.3	7.0	.88	.24	.10	.04
14	.01	.01	.07	.01	.01	.02	2.4	5.3	.88	.20	.06	.04
15	.02	.01	.07	.01	.01	.02	2.3	4.5	.81	.16	.06	.07
16	.07	.01	.07	.01	.01	.03	.85	4.2	.75	.16	.06	.04
17	.04	.01	.07	.01	.01	.03	1.6	4.1	.75	.10	.05	.03
18	.02	.03	.07	.01	.01	.02	2.4	4.1	.70	.10	.05	.03
19	.01	.03	.05	.01	.01	.02	.94	4.1	.64	.10	.05	.03
20	.00	.04	.05	.01	.01	.02	.51	4.2	.59	.10	.04	.04
21	.00	.05	.04	.01	.01	.02	.67	3.6	.59	.10	.04	.03
22	.00	.02	.03	.01	.01	.04	2.2	3.3	.70	.10	.04	.04
23	.00	.02	.04	.01	.01	.10	3.7	3.1	.70	.10	.04	.04
24	.00	.04	.01	.01	.01	.10	4.6	2.9	.59	.10	.04	.03
25	.00	.05	.01	.01	.01	.10	5.1	2.7	.53	.10	.04	.01
26	.04	.05	.01	.01	.01	.10	4.7	2.5	.53	.10	.03	.04
27	.01	.07	.01	.01	.01	.10	5.3	2.4	.53	.10	.01	.04
28	.00	.07	.01	.01	.01	.20	5.1	2.2	.42	.16	.02	.04
29	.00	.07	.01	.01	---	.10	4.9	2.1	.37	.20	.03	.04
30	.02	.07	.01	.01	---	.10	5.1	2.1	.37	.13	.03	.04
31	.05	---	.01	.01	---	.10	---	2.1	---	.13	.01	---
TOTAL	.31	.87	1.55	.31	.28	1.43	58.47	147.2	27.57	6.47	1.88	.89
MEAN	.010	.029	.050	.010	.010	.046	1.95	4.75	.92	.21	.061	.030
MAX	.07	.07	.07	.01	.01	.20	5.3	11	1.8	.42	.13	.07
MIN	.00	.01	.01	.01	.01	.01	.10	2.1	.37	.10	.01	.00
AC-FT	.6	1.7	3.1	.6	.6	2.8	116	292	55	13	3.7	1.8

WTR YR 1982 TOTAL 247.23 MEAN .68 MAX 11 MIN .00 AC-FT 490

NOTE.--NO GAGE-HEIGHT RECORD JAN. 3 to APR. 13.

09244415 SAGE CREEK ABOVE SAGE CREEK RESERVOIR, NEAR HAYDEN, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1981 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1981 to current year.
WATER TEMPERATURES: March 1981 to current year.

INSTRUMENTATION.--Water-quality monitor since March 1981.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, not determined; minimum not determined.
WATER TEMPERATURES: Maximum, not determined; minimum, 0.0°C many days during October to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
APR												
13...	1520	1.3	450	--	--	2.0	--	--	--	--	--	--
14...	1520	6.3	320	290	7.5	.5	10.0	140	31	16	7.7	.3
28...	1550	6.9	340	--	--	11.0	--	--	--	--	--	--
28...	1650	7.2	340	--	--	11.0	--	--	--	--	--	--
29...	1100	4.0	410	--	8.2	3.5	--	--	--	--	--	--
MAY												
04...	1345	12	360	--	--	10.0	--	--	--	--	--	--
18...	1400	4.1	430	430	8.5	12.0	8.7	210	48	22	7.2	.2
JUN												
04...	1030	1.7	510	--	8.4	11.0	8.8	270	59	30	11	.3
JUL												
20...	1445	E.15	622	648	8.4	20.0	7.0	330	73	35	15	.4
20...	1450	.10	--	--	--	20.0	--	--	--	--	--	--
SEP												
29...	1555	E.01	1000	983	8.4	8.0	8.3	540	110	65	24	.5

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
APR												
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	3.3	97	62	2.3	.2	7.1	190	.26	3.2	.45	--	.020
28...	--	--	--	--	--	--	--	--	--	--	.270	--
28...	--	--	--	--	--	--	--	--	--	--	.250	--
29...	--	--	--	--	--	--	--	--	--	--	.180	--
MAY												
04...	--	--	--	--	--	--	--	--	--	--	.220	--
18...	2.3	170	42	3.0	.2	7.6	235	.32	2.6	<.10	--	<.010
JUN												
04...	2.6	212	74	3.1	.2	9.3	317	.43	1.5	.12	--	.020
JUL												
20...	3.9	253	110	3.9	.2	11	405	.55	--	.10	--	.040
20...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
29...	10	320	250	10	.2	12	675	.92	.05	.26	--	.030

09244415 SAGE CREEK ABOVE SAGE CREEK RESERVOIR, NEAR HAYDEN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)
APR										
13...	13000	--	3	--	--	<1	--	28	5	23
14...	19000	170	5	1	20	<1	<3	31	8	38
28...	6600	--	1	--	--	<1	--	16	3	10
28...	4200	--	1	--	--	<1	--	16	2	8
29...	2000	--	3	--	--	<1	--	9	2	5
MAY										
04...	2800	--	1	--	--	<1	--	12	1	6
18...	260	20	1	1	20	<1	<3	--	--	7
JUN										
04...	--	--	--	--	40	--	--	--	--	--
JUL										
20...	--	--	--	--	70	--	--	--	--	--
SEP										
29...	200	20	--	--	80	--	--	--	--	--

DATE	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)
APR										
13...	--	17000	--	10	--	400	--	.1	--	--
14...	3	30000	210	8	2	870	43	.2	<.1	3
28...	--	7700	--	4	--	120	--	.3	--	--
28...	--	6200	--	4	--	120	--	.2	--	--
29...	--	2800	--	<1	--	90	--	.2	--	--
MAY										
04...	--	4200	--	3	--	130	--	.2	--	--
18...	4	340	<9	1	<1	30	17	<.1	<.1	<1
JUN										
04...	--	870	29	--	--	90	43	--	--	--
JUL										
20...	--	430	28	--	--	40	27	--	--	--
SEP										
29...	--	600	85	3	4	100	80	--	--	--

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)
APR									
13...	--	--	--	<1	-	100	--	--	--
14...	1	22	4	1	<1	150	<12	31	7.5
28...	--	--	--	<1	--	40	--	--	--
28...	--	--	--	1	--	40	--	--	--
29...	--	--	--	1	--	20	--	--	--
MAY									
04...	--	--	--	1	--	50	--	--	--
18...	<1	3	4	<1	<1	20	<12	32	6.7
JUN									
04...	--	--	--	--	--	--	--	--	--
JUL									
20...	--	--	--	--	--	--	--	--	--
SEP									
29...	--	--	--	--	--	30	8	9.9	9.6

09244415 SAGE CREEK ABOVE SAGE CREEK RESERVOIR, NEAR HAYDEN, CO--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
APR					
13...	1520	1.3	810	2.8	90
14...	1520	6.3	1660	28	86
28...	1550	6.9	281	5.2	87
28...	1650	7.2	253	4.9	85
29...	1100	4.0	142	1.5	48
MAY					
04...	1345	12	183	5.9	82
18...	1400	4.1	26	.29	--
JUN					
04...	1030	1.7	42	.19	--
JUL					
20...	1450	.10	50	.01	--
SEP					
29...	1555	E.01	18	.00	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1430	1260	1260	1140	1050	776	---	489		---	---
2	---	1330	1220	1260	1120	1030	862	---	502		---	---
3	---	1330	1220	1250	1110	934	847	---	493		---	---
4	---	1360	1260	1260	1110	1080	726	379	538		---	---
5	---	1370	1240	1250	1120	1100	824	386	539		---	---
6	---	1360	1260	1250	1150	1120	889	402	546		---	834
7	---	1380	1250	1250	1100	1140	902	417	550		---	824
8	---	1360	1250	1220	1110	1130	921	420	557		---	827
9	---	1360	1240	1220	1120	1090	921	423	561		---	845
10	---	1370	1210	1230	1140	1050	893	420	563		---	845
11	---	1370	1220	1240	1140	1020	690	422	573		---	909
12	1490	1350	1240	1210	1130	882	526	421	584		---	955
13	1460	1310	1210	1210	1130	972	594	411	589		---	---
14	1430	1320	1190	1220	1130	971	506	425	600		---	---
15	1350	1330	1190	1220	1110	973	497	436	595		---	---
16	1130	1320	1190	1210	1120	1020	549	440	594		---	---
17	1400	1320	1200	1210	1100	994	528	445	602		---	---
18	1390	1260	1240	1200	1130	958	487	461	605		---	---
19	1380	1300	1200	1190	1130	923	560	467	610		---	---
20	---	1420	1190	1130	1130	1040	603	464	621		---	---
21	---	1250	1210	1100	1110	1080	586	477	627		---	---
22	---	1260	1200	1150	1110	1070	511	484	637		---	---
23	---	1270	1230	1130	1080	1050	462	490	---		---	---
24	---	1270	1250	1130	1080	1010	443	495	---		---	---
25	---	1310	1200	1130	1100	922	430	499	---		---	---
26	1370	1350	1200	1120	1090	921	424	505	---		---	---
27	1370	1370	1200	1140	1080	883	437	490	---		---	---
28	---	1270	1200	1130	1070	762	---	475	---		---	---
29	---	1310	1190	1140	---	815	---	477	---		---	987
30	1330	1270	1200	1140	---	953	---	498	---		---	912
31	1410	---	1270	1150	---	888	---	502	---		769	---
MEAN	1380	1330	1220	1190	1110	995	644	451				

E ESTIMATED.

09244415 SAGE CREEK ABOVE SAGE CREEK RESERVOIR, NEAR HAYDEN, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	.5	.0	.0	.0	.0	.0	.0	.0	.5	.5
2	---	---	.5	.0	.0	.0	.0	.0	.0	.0	.5	.0
3	---	---	2.5	.0	.0	.0	.0	.0	.0	.0	.5	.0
4	---	---	3.0	.0	.0	.0	.0	.0	.0	.0	.5	.0
5	---	---	3.0	.0	.0	.0	.0	.0	.0	.0	.5	.0
6	---	---	3.5	.0	.0	.0	.0	.0	.0	.0	.5	.0
7	---	---	4.0	1.0	.0	.0	.0	.0	.0	.0	.5	.0
8	---	---	3.5	.0	.0	.0	.0	.0	.0	.0	.5	.0
9	---	---	1.5	.0	.0	.0	.0	.0	.0	.0	1.0	.5
10	---	---	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	.5
11	---	---	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0
12	7.0	3.5	.5	.0	.0	.0	.0	.0	.0	.0	.5	.0
13	9.5	4.0	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0
14	7.5	3.0	3.5	.0	.0	.0	.0	.0	.0	.0	1.0	.0
15	7.5	2.0	4.5	1.5	.0	.0	.0	.0	.0	.0	1.0	.5
16	6.0	3.0	4.0	.5	.0	.0	.0	.0	.0	.0	1.0	.0
17	4.5	2.5	3.5	.0	.0	.0	.0	.0	.0	.0	1.5	.5
18	6.5	1.5	1.0	.0	.0	.0	.5	.0	.0	.0	1.0	.0
19	7.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	1.0	.0
20	---	---	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0
21	---	---	.0	.0	.0	.0	.0	.0	.5	.0	.5	.0
22	---	---	.5	.0	.0	.0	.0	.0	.5	.0	1.0	.0
23	---	---	1.0	.0	.0	.0	.0	.0	.5	.0	1.0	.0
24	---	---	1.5	.0	.0	.0	.0	.0	.5	.0	1.5	.0
25	---	---	.5	.0	.0	.0	.0	.0	.5	.0	1.5	.0
26	2.5	.0	.0	.0	.0	.0	.0	.0	.5	.0	1.5	.5
27	5.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	1.5	.5
28	---	---	.0	.0	.0	.0	.0	.0	.5	.0	1.5	.0
29	---	---	.0	.0	.0	.0	.0	.0	---	---	1.0	.0
30	1.0	.0	.0	.0	.0	.0	.0	.0	---	---	.5	.0
31	.0	.0	---	---	.0	.0	.0	.0	---	---	1.5	.0
MONTH	9.5	.0	4.5	.0	.0	.0	.5	.0	.5	.0	1.5	.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.0	.0	---	---	14.0	8.0			---	---	---	---
2	1.5	.0	---	---	15.5	7.5			---	---	---	---
3	2.5	.0	---	---	14.5	8.0			---	---	---	---
4	2.5	.0	10.0	5.0	17.0	10.0			---	---	---	---
5	2.0	.0	11.0	3.5	17.0	7.5			---	---	---	---
6	2.5	.5	11.5	2.5	16.5	6.5			---	---	14.0	9.0
7	1.0	.0	11.0	3.0	17.5	6.5			---	---	12.5	9.5
8	2.0	.0	12.5	5.0	17.0	7.0			---	---	12.5	9.0
9	3.0	.0	14.5	5.0	17.5	6.0			---	---	13.5	8.5
10	4.0	.0	13.5	5.0	16.0	7.0			---	---	11.5	9.0
11	3.5	.0	10.5	5.0	18.0	7.5			---	---	10.5	9.0
12	.5	.0	10.5	5.5	16.5	8.5			---	---	---	---
13	4.0	.0	6.5	4.5	16.5	8.5			---	---	---	---
14	5.0	.0	9.5	4.5	17.0	8.5			---	---	---	---
15	5.0	.0	11.5	4.0	16.0	8.5			---	---	---	---
16	6.0	.0	12.0	5.5	19.0	8.0			---	---	---	---
17	6.5	.0	13.0	4.5	19.5	10.0			---	---	---	---
18	6.5	.0	13.5	5.0	17.0	10.0			---	---	---	---
19	2.5	.0	12.0	6.0	19.0	8.0			---	---	---	---
20	5.0	.0	11.5	6.0	19.0	8.0			---	---	---	---
21	7.5	.0	17.0	5.0	17.0	8.5			---	---	---	---
22	8.0	.0	15.5	6.0	16.5	5.5			---	---	---	---
23	8.5	.0	16.5	7.0	---	---			---	---	---	---
24	9.0	.0	13.5	7.0	---	---			---	---	---	---
25	8.5	.5	13.5	6.5	---	---			---	---	---	---
26	8.0	1.0	18.0	6.5	---	---			---	---	---	---
27	7.5	1.0	16.5	5.5	---	---			---	---	---	---
28	---	---	14.5	7.5	---	---			---	---	---	---
29	---	---	13.5	6.5	---	---			---	---	7.5	7.0
30	---	---	15.0	5.0	---	---			---	---	8.0	5.5
31	---	---	17.0	7.0	---	---			15.5	12.0	---	---
MONTH	9.0	.0	18.0	2.5								

09244464 HUBBERSON GULCH NEAR HAYDEN, CO

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1979 to September 1982 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1979 to September 1981 (discontinued).
WATER TEMPERATURES: July 1979 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor July 1979 to September 1981.

REMARKS.--Unpublished daily values of specific conductance and water temperatures for the 1979 water year are published in this report. Maximum and minimum values of specific conductance are available in the district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,090 micromhos Nov. 18, 1980; minimum, 119 micromhos July 3, 1981.
WATER TEMPERATURES: Maximum, 28.5°C July 5, 1981; minimum, 0.0°C on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	PHOS-PHORUS, TOTAL (MG/L AS P)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
MAR									
17...	1245	.01	--	--	--	--	--	--	--
APR									
13...	1345	8.5	570	--	8.5	--	71000	11	< 1
13...	1830	14	420	--	4.5	--	83000	12	< 1
14...	1400	5.7	650	--	11.0	--	41000	8	< 1
28...	1740	5.0	490	--	14.0	> 1.10	29000	4	< 1
29...	1215	4.2	500	8.3	5.0	.430	9600	2	1
MAY									
04...	1445	7.5	420	--	10.0	.640	15000	4	< 1
18...	1515	3.4	520	--	13.0	.140	2100	1	< 1

DATE	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
MAR									
17...	--	--	--	--	--	--	--	--	--
APR									
13...	51	9	130	110000	< 1	1800	.3	1	560
13...	20	1	15	150000	2	2500	.3	< 1	710
14...	24	< 1	4	72000	< 1	1300	.2	1	360
28...	22	8	58	54000	16	660	.2	1	260
29...	18	5	15	140000	3	260	.2	< 1	70
MAY									
04...	26	4	23	27000	3	420	.2	1	130
18...	11	7	6	2900	2	90	.1	1	20

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAR					APR				
17...	1245	.01	186	.00	29...	1215	4.2	607	6.9
APR					MAY				
13...	1345	8.5	6900	158	04...	1445	7.5	1215	25
13...	1830	14	8390	317	18...	1515	3.4	99	.91
14...	1400	5.7	4460	69					
28...	1740	5.0	2800	38					

09244470 STOKES GULCH NEAR HAYDEN, CO

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to September 1982 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1976 to September 1981 (discontinued).
WATER TEMPERATURES: October 1976 to September 1981 (discontinued).
SUSPENDED SEDIMENT DISCHARGE: October 1976 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor since October 1976. Pumping sediment sampler since October 1976.

REMARKS.--Flow occurred only on days shown. Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 12,200 micromhos May 4, 1981; minimum 395 micromhos Apr. 21, 1980.
WATER TEMPERATURES: Maximum 29.0°C June 9, 1981; minimum 0.0°C Apr. 10-20, 1980.
SEDIMENT CONCENTRATIONS: Maximum daily, 13,000 mg/L May 8, 1980; no flow many days during each year.
SEDIMENT LOADS: Maximum daily, 753 tons (683 t) Apr. 21, 1980; no flow many days during each year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
MAR								
17...	1330	7.0	--	2.0	--	--	--	--
APR								
13...	1430	25	2500	9.5	7000	2	<1	21
13...	1800	33	2600	10.0	9800	3	<1	25
14...	1430	11	--	12.5	21000	3	<1	25
14...	2130	41	1780	11.0	31000	5	<1	28
14...	2245	59	1780	11.0	21000	3	1	27

DATE	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	SELENIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
MAR								
17...	--	--	--	--	--	--	--	--
APR								
13...	2	11	6800	6	100	.1	42	40
13...	4	13	9300	<1	110	.2	45	50
14...	7	18	15000	6	170	.2	27	70
14...	8	33	30000	4	260	.2	26	140
14...	8	25	19000	8	190	.2	38	90

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
MAR				
17...	1330	7.0	51	.96
APR				
13...	1430	25	201	14
13...	1800	33	319	28
14...	1430	11	464	14
14...	2130	41	745	82
14...	2245	59	1110	177

09245000 ELKHEAD CREEK NEAR ELKHEAD, CO

LOCATION.--Lat 40°40'11", long 107°17'04", in NW¼NE¼ sec.8, T.8 N., R.88 W., Routt County, Hydrologic Unit 14050001, on right bank 0.2 mi (0.3 km) upstream from North Fork Elkhead Creek, 4.5 mi (7.2 km) northwest of Elkhead, and 12 mi (19 km) north of Hayden.

DRAINAGE AREA.--64.2 mi² (166.3 km²).

PERIOD OF RECORD.--January to November 1910 and May to November 1920 (monthly discharge only, published in WSP 1313; published as "at Hayes Ranch"), April 1953 to current year.

REVISED RECORDS.--WSP 1733: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,845 ft (2,086 m), from topographic map. Prior to Nov. 30, 1920, nonrecording gage or water-stage recorder 675 ft (210 m) upstream at different datum.

REMARKS.--Records poor. No diversion above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--29 years (water years 1954-82), 53.8 ft³/s (1.524 m³/s), 38,980 acre-ft/yr (48.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,870 ft³/s (53.0 m³/s) May 17, 1978, gage height, 7.07 ft (2.155 m); maximum daily discharge, 1,660 ft³/s (47.0 m³/s) May 22, 1920; no flow Sept. 1, 1954, Sept. 12-19, 24, 1955, Aug. 27-29, 1961, Aug. 14-19, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,540 ft³/s (43.6 m³/s) at 0700 May 4, gage height, 6.94 ft (2.115 m); only peak above base of 800 ft³/s (23 m³/s); minimum daily, 2.9 ft³/s (0.082 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	10	6.4	8.2	8.1	6.2	4.1	304	304	72	14	3.6
2	6.2	9.8	6.4	8.1	9.1	8.2	4.1	416	278	70	12	3.5
3	8.1	8.7	6.7	7.8	4.2	7.3	4.8	755	262	62	11	3.4
4	15	8.2	6.7	8.1	7.1	6.0	3.8	1290	242	56	11	3.3
5	14	7.9	6.6	8.3	2.9	5.5	3.7	820	228	51	10	3.2
6	10	7.6	6.3	8.0	8.7	5.5	3.7	580	218	49	9.4	3.2
7	10	7.6	6.3	7.9	8.6	7.0	3.5	532	139	46	8.5	3.3
8	16	7.0	6.2	8.9	8.5	4.8	3.4	548	131	42	8.0	3.3
9	12	6.0	6.2	8.3	8.5	6.7	4.4	560	150	38	7.8	3.3
10	10	6.5	6.0	9.5	8.4	5.5	4.2	540	149	29	7.5	3.3
11	10	6.2	6.1	11	4.8	5.5	3.8	476	153	19	7.3	3.5
12	11	6.5	5.9	11	7.9	5.8	5.1	455	144	23	6.8	3.9
13	12	6.5	5.9	11	3.1	4.9	5.1	427	141	16	6.6	4.3
14	12	6.5	5.8	11	7.5	6.7	7.5	356	132	22	6.4	5.0
15	12	6.5	6.0	8.0	3.0	5.1	9.1	334	129	17	6.2	5.8
16	13	6.5	5.8	8.3	5.0	5.8	12	340	125	14	5.8	6.2
17	13	6.3	5.9	7.4	7.2	4.1	14	358	122	15	5.7	6.2
18	11	6.3	6.3	8.4	6.1	4.2	30	367	119	16	5.5	6.3
19	11	5.9	7.0	8.1	5.5	4.1	39	414	108	14	5.3	6.1
20	10	6.1	7.5	8.3	5.1	4.4	31	376	98	12	5.0	6.0
21	9.6	6.3	7.7	9.1	4.9	3.5	25	376	89	11	4.9	6.0
22	8.8	6.3	7.6	9.4	5.9	4.2	23	409	87	10	4.5	5.9
23	8.5	6.4	7.3	9.3	3.8	4.2	37	391	96	9.5	4.4	5.9
24	8.8	6.9	8.3	5.8	5.8	5.1	95	388	94	8.8	4.2	5.8
25	8.7	6.0	9.5	5.8	6.3	3.8	167	388	83	8.3	4.1	5.6
26	9.0	5.6	9.4	8.1	7.0	5.1	165	355	99	7.9	3.8	5.7
27	9.0	5.6	9.0	9.1	8.7	3.5	175	373	89	9.0	3.9	5.9
28	9.6	5.8	8.6	7.9	5.9	3.7	190	362	75	10	3.8	5.9
29	11	6.0	8.9	8.4	---	3.9	239	336	73	13	3.8	6.7
30	10	6.0	9.2	8.5	---	3.9	195	325	68	16	3.8	7.5
31	9.2	---	8.8	7.9	---	3.9	---	330	---	15	3.7	---
TOTAL	324.7	203.5	220.3	264.9	177.6	158.1	1507.3	14281	4225	801.5	204.7	147.6
MEAN	10.5	6.78	7.11	8.55	6.34	5.10	50.2	461	141	25.9	6.60	4.92
MAX	16	10	9.5	11	9.1	8.2	239	1290	304	72	14	7.5
MIN	6.2	5.6	5.8	5.8	2.9	3.5	3.4	304	68	7.9	3.7	3.2
AC-FT	644	404	437	525	352	314	2990	28330	8380	1590	406	293

CAL YR 1981 TOTAL 11146.17 MEAN 30.5 MAX 507 MIN .34 AC-FT 22110
WTR YR 1982 TOTAL 22516.20 MEAN 61.7 MAX 1290 MIN 2.9 AC-FT 44660

09250000 MILK CREEK NEAR THORNBURGH, CO

LOCATION.--Lat 40°11'37", long 107°43'57", in NE¼ sec.32, T.3 N., R.92 W., Rio Blanco County, Hydrologic Unit 14050002, on right bank 2.2 mi (3.5 km) southwest of Thornburgh and 3.0 mi (4.8 km) upstream from Little Creek.

DRAINAGE AREA.--65 mi² (168 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1952 to current year. Published as "near Thornburg" October 1952 to September 1968.

GAGE.--Water-stage recorder. Datum of gage is 6,599.32 ft (2,011.473 m), National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Records good except those for winter period, which are poor. Diversion for irrigation of about 1,321 acres (5.35 km²) above station.

AVERAGE DISCHARGE.--30 years, 25.4 ft³/s (0.719 m³/s), 18,400 acre-ft/yr (22.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,050 ft³/s (29.7 m³/s) May 10, 1974, gage height, 5.03 ft (1.533 m), from rating curve extended above 340 ft³/s (9.63 m³/s); maximum gage height, 5.52 ft (1.682 m) June 1, 1957; minimum daily discharge, 0.20 ft³/s (0.006 m³/s) for several days in 1956, 1963, and 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s (7.1 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 2	2300	* 488	13.8	5.11	1.558	May 25	2100	403	11.4	4.77	1.454
May 12	0300	358	10.1	4.58	1.396						

Minimum daily discharge, 1.3 ft³/s (0.037 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	6.0	7.3	3.0	3.0	3.0	13	302	207	39	4.7	2.2
2	1.3	7.2	7.8	3.0	3.0	3.0	14	366	190	33	4.5	1.9
3	1.5	7.0	6.8	3.0	3.0	3.3	17	404	169	28	4.4	1.8
4	7.6	6.7	7.1	3.0	3.0	4.5	14	301	161	25	6.3	1.7
5	14	6.7	6.8	3.0	3.0	5.6	16	236	147	29	5.0	1.8
6	6.4	6.8	6.2	3.0	3.0	9.3	17	211	138	26	3.8	2.2
7	4.8	7.1	5.7	3.0	3.0	8.5	15	225	133	24	3.1	2.2
8	5.7	6.7	6.8	3.0	3.0	8.0	12	235	122	21	3.0	2.2
9	11	5.9	6.3	3.0	3.0	7.5	17	231	113	21	2.7	2.1
10	5.9	5.4	4.9	3.0	3.0	10	52	201	109	17	2.7	2.1
11	5.1	5.1	5.3	3.0	3.0	18	53	232	106	16	2.8	3.7
12	7.0	5.2	4.9	3.0	3.0	32	65	265	99	15	2.3	5.0
13	8.0	5.5	5.2	3.0	3.0	15	81	187	93	14	2.0	7.1
14	7.0	5.0	5.2	3.0	3.0	16	92	179	88	11	1.9	8.0
15	7.2	5.1	5.2	3.0	3.0	20	105	211	83	9.8	1.8	6.2
16	18	5.1	5.2	3.0	3.0	18	110	270	84	9.4	2.1	6.0
17	9.7	5.2	5.0	3.0	3.0	17	113	316	80	8.2	2.6	4.7
18	7.3	5.7	4.7	3.0	3.0	17	120	323	71	6.6	3.0	4.1
19	6.4	5.6	4.7	3.0	3.0	15	94	313	59	6.2	2.4	3.6
20	6.1	6.1	4.4	3.0	3.0	11	72	291	54	6.3	2.2	3.3
21	5.9	6.0	3.2	3.0	3.0	12	54	307	56	6.3	2.0	3.1
22	5.4	5.9	3.1	3.0	3.0	10	73	331	55	6.1	2.2	2.9
23	5.1	6.0	3.0	3.0	3.0	10	86	327	52	7.8	2.2	2.8
24	5.3	5.8	3.0	3.0	3.0	8.7	134	301	52	7.1	2.2	2.7
25	5.7	7.8	3.0	3.0	3.0	12	159	321	53	7.0	2.6	2.8
26	5.3	6.2	3.0	3.0	3.0	13	182	326	51	7.0	2.3	3.0
27	5.3	5.8	3.0	3.0	3.0	14	185	309	45	6.6	2.4	4.5
28	5.2	6.0	3.0	3.0	3.0	18	197	286	39	6.6	2.2	7.6
29	6.2	6.3	3.0	3.0	---	12	188	257	35	4.2	2.2	9.0
30	6.8	6.2	3.0	3.0	---	13	248	228	31	4.8	2.2	8.8
31	5.2	---	3.0	3.0	---	13	---	226	---	4.7	2.2	---
TOTAL	202.8	181.1	148.8	93.0	84.0	377.4	2598	8518	2775	433.7	88.0	119.1
MEAN	6.54	6.04	4.80	3.00	3.00	12.2	86.6	275	92.5	14.0	2.84	3.97
MAX	18	7.8	7.8	3.0	3.0	32	248	404	207	39	6.3	9.0
MIN	1.3	5.0	3.0	3.0	3.0	3.0	12	179	31	4.2	1.8	1.7
AC-FT	402	359	295	184	167	749	5150	16900	5500	860	175	236

CAL YR 1981 TOTAL 5859.03 MEAN 16.1 MAX 162 MIN .63 AC-FT 11620
WTR YR 1982 TOTAL 15618.90 MEAN 42.8 MAX 404 MIN 1.3 AC-FT 30980

09250000 Milk Creek near Thornburgh, Co--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May to September 1982 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
OCT												
05...	1020	15	490	456	8.1	9.5	8.7	210	56	17	15	.5
MAY												
04...	1625	362	283	--	8.4	--	--	--	--	--	--	--
18...	1630	266	380	--	--	10.0	--	--	--	--	--	--

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT											
05...	3.3	150	95	4.9	.1	9.7	292	.40	11.4	.14	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	.465
18...	--	--	--	--	--	--	--	--	--	--	.328

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	SELENIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
MAY												
04...	14000	4	1	19	10	29	27000	8	410	.3	3	150
18...	7300	3	1	21	7	19	14000	8	220	.2	2	80

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
OCT				
05...	1020	15	295	12
MAY				
18...	1630	266	870	625

09250507 WILSON CREEK ABOVE TAYLOR CREEK, NEAR AXIAL, CO

LOCATION.--Lat 40°18'53", long 107°47'58", in NW¼SW¼ sec.14, T.4 N., R.93 W., Moffatt County, Hydrologic Unit 14050002, on left bank about 200 ft (61 m) upstream from Moffat County Road 17, about 50 ft (15 m) upstream from confluence of Taylor Creek, and 2.4 mi (3.9 km) north of Axial.

DRAINAGE AREA.--20.0 mi² (51.8 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,315 ft (1,925 m), from topographic map.

REMARKS.--Records good except those for period Oct. 1 to Apr. 30, and those for periods of no gage-height record, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19 ft³/s (0.54 m³/s) May 13, 1982, gage height, 1.16 ft (0.354 m); minimum daily, 0.15 ft³/s (0.004 m³/s) Mar. 20, 21, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19 ft³/s (0.54 m³/s) at 0630 May 13, gage height, 1.16 ft (0.354 m); minimum daily, 0.15 ft³/s (0.004 m³/s) March 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	.54	.46	.34	.50	1.0	.67	7.0	7.5	2.2	2.1	.70
2	.32	.54	.44	.34	.31	.99	1.1	8.3	6.7	2.1	2.1	.75
3	.44	.56	.42	.34	.40	1.1	.44	8.9	6.4	2.0	2.0	.83
4	.69	.56	.42	.34	.60	1.3	.49	9.9	6.7	1.9	2.0	1.3
5	.85	.56	.42	.34	.68	1.3	.37	12	7.7	1.8	1.9	1.2
6	.63	.56	.40	.34	.75	.98	.49	12	7.3	1.7	1.9	1.3
7	.56	.56	.40	.34	.75	.98	.55	11	7.3	1.6	1.6	1.3
8	.75	.58	.40	.34	.68	.98	.42	10	7.3	1.5	1.5	1.2
9	.94	.58	.40	.34	.62	1.3	.55	9.1	6.9	1.5	1.6	1.1
10	.50	.58	.40	.34	.62	1.1	.48	8.4	5.6	1.5	1.7	1.0
11	.56	.60	.40	.34	.61	.88	.68	8.6	4.5	1.4	1.7	1.4
12	.69	.60	.38	.34	.70	.88	1.1	11	4.8	1.4	1.6	2.0
13	.69	.54	.38	.34	.70	.87	.82	15	4.9	1.3	1.8	2.0
14	.75	.54	.36	.34	.90	.97	.67	12	4.9	1.3	2.2	2.1
15	.75	.54	.36	.34	1.1	.97	.67	11	5.5	1.2	1.7	1.9
16	2.1	.54	.36	.32	.92	.96	.73	11	5.5	1.2	1.5	1.6
17	.75	.54	.36	.32	.91	.77	.81	12	5.5	1.1	1.5	1.4
18	.75	.54	.36	.32	.91	.70	1.1	11	5.8	1.1	1.1	1.4
19	.68	.54	.36	.32	.91	.38	1.1	12	6.2	1.1	.70	1.4
20	.68	.54	.36	.32	1.1	.15	.96	14	4.5	1.1	.58	1.7
21	.68	.52	.36	.32	1.1	.15	1.2	14	4.5	1.0	.77	1.6
22	.68	.50	.36	.32	1.0	.57	1.2	13	4.5	1.0	1.3	1.6
23	.61	.50	.36	.32	1.1	.57	1.3	12	4.0	1.0	2.5	1.6
24	.61	.50	.36	.32	1.0	.32	1.5	11	3.5	1.0	1.1	1.3
25	.61	.48	.36	.32	1.0	.38	1.8	11	3.3	1.0	.64	1.2
26	.61	.46	.36	.32	1.2	.44	2.1	12	3.0	1.0	.57	1.1
27	.55	.46	.36	.40	1.0	.44	3.7	11	2.9	1.5	.57	1.0
28	.55	.46	.35	.45	1.0	.44	6.1	11	2.7	2.0	.57	1.4
29	.54	.46	.35	.50	---	.49	6.4	9.3	2.5	3.0	.86	1.8
30	.54	.46	.35	.40	---	.64	7.0	7.5	2.4	2.9	1.1	2.1
31	.54	---	.35	.40	---	.50	---	7.7	---	2.5	.86	---
TOTAL	20.92	15.94	11.76	10.77	23.07	23.50	46.50	333.7	154.8	47.9	43.62	42.28
MEAN	.67	.53	.38	.35	.82	.76	1.55	10.8	5.16	1.55	1.41	1.41
MAX	2.1	.60	.46	.50	1.2	1.3	7.0	15	7.7	3.0	2.5	2.1
MIN	.32	.46	.35	.32	.31	.15	.37	7.0	2.4	1.0	.57	.70
AC-FT	41	32	23	21	46	47	92	662	307	95	87	84

CAL YR 1981 TOTAL 308.38 MEAN .84 MAX 2.6 MIN .24 AC-FT 612
WTR YR 1982 TOTAL 774.76 MEAN 2.12 MAX 15 MIN .15 AC-FT 1540

NOTE.--NO GAGE-HEIGHT RECORD OCT. 29 TO JAN. 25, JUNE 20 TO JULY 27.

09250507 WILSON CREEK ABOVE TAYLOR CREEK NEAR AXIAL, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to September 1981 (discontinued).
WATER TEMPERATURE: October 1975 to September 1981 (discontinued).
SUSPENDED-SEDIMENT DISCHARGE: October 1975 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor since October 1975. Pumping sediment sampler since October 1975.

REMARKS.--This station moved upstream of Taylor Creek inflow, formerly published as station 09250600 Wilson Creek near Axial. Daily maximum and minimum specific-conductance data available in the district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,780 micromhos Oct. 7, 1975; minimum, 192 micromhos Feb. 15, 1980.
WATER TEMPERATURES: Maximum, 27.5°C Aug. 12, 1976; minimum, 0.0°C many days during winter months.
SEDIMENT CONCENTRATIONS: Maximum daily, 36,800 mg/L May 13, 1980; minimum daily, 5 mg/L estimated for several days in January 1977, Sept. 18, 1979.
SEDIMENT LOADS: Maximum daily, 3,870 tons (3,510 t) May 13, 14, 1980; minimum daily, 0.00 ton (0.00 t) several days in January 1977.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
MAR									
02...	1030	1.1	--	5.5	--	--	--	--	--
24...	1130	--	1650	7.0	--	--	14000	4	< 1
APR									
12...	1615	1.4	--	--	--	--	30000	8	< 1
MAY									
19...	1040	13	1100	9.5	> 1.10	1.20	100000	15	< 1
21...	1515	17	--	--	> 1.10	--	77000	14	< 1

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	SELENIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
MAR									
02...	--	--	--	--	--	--	--	--	--
24...	8	7	33	20000	9	450	.1	9	150
APR									
12...	27	15	56	46000	27	1500	.2	6	340
MAY									
19...	44	3	320	170000	< 1	5400	.3	3	1200
21...	36	10	200	110000	3	3100	.3	2	770

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR					
02...	1030	1.1	2220	6.6	92
24...	1200	--	2030	--	--
APR					
12...	1615	1.4	3635	14	85
MAY					
19...	1040	13	18650	645	79
21...	1515	17	14050	626	--

09250510 TAYLOR CREEK AT MOUTH, NEAR AXIAL, CO

LOCATION.--Lat 40°18'48", long 107°47'57", in NW¼SW¼ sec.14, T.4 N., R.93 W., Moffatt County, Hydrologic Unit 14050002, on right bank 475 ft (145 m) upstream from confluence with Wilson Creek, about 1,000 ft (300 m) southwest of Gossard ranch house, and 2 mi (3.2 km) north of Axial. Prior to Mar. 29, 1980, at site 25 ft (8 m) upstream.

DRAINAGE AREA.--7.22 mi^2 (18.70 km^2).

PERIOD OF RECORD.--Streamflow records, July 1975 to current year. Water-quality data available, July 1975 to September 1981.

GAGE.--Water-stage recorder. Altitude of gage is 6,300 ft (1,920 m), from topographic map. Prior to Mar. 28, 1980, gage 25 ft (8 m) upstream at datum 0.08 ft (0.024 m) higher.

REMARKS.--Records good except those for period Oct. 1 to Mar. 31, which are poor. No diversions. Low dam to prevent erosion 75 ft (23 m) upstream.

AVERAGE DISCHARGE.--7 years, 0.12 ft^3/s (0.003 m^3/s), 86 acre-ft/yr (0.11 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 18 ft^3/s (0.51 m^3/s) Feb. 19, 1981, gage height, 2.69 ft (0.820 m) result of discharge measurement; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.2 ft^3/s (0.034 m^3/s) at 2330 Oct. 15, gage height, 0.52 ft (0.159 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.02	.00	.00	.00	.05	.09	.05	.01	.04	.01	.04
2	.00	.00	.00	.00	.00	.06	.18	.07	.00	.04	.02	.04
3	.18	.00	.00	.00	.00	.09	.09	.07	.00	.06	.04	.04
4	.28	.00	.00	.00	.00	.09	.08	.07	.00	.08	.03	.04
5	.11	.00	.00	.00	.00	.05	.11	.07	.00	.07	.05	.05
6	.00	.00	.00	.00	.00	.00	.08	.06	.00	.08	.03	.07
7	.09	.07	.00	.00	.00	.00	.11	.05	.00	.06	.03	.08
8	.11	.00	.00	.00	.00	.05	.09	.04	.00	.04	.03	.07
9	.00	.00	.00	.00	.00	.04	.11	.04	.00	.04	.03	.15
10	.00	.00	.01	.00	.00	.05	.07	.06	.00	.05	.02	.09
11	.02	.09	.02	.00	.00	.10	.08	.05	.00	.05	.02	.24
12	.00	.00	.03	.00	.00	.10	.19	.26	.00	.04	.03	.20
13	.12	.00	.01	.00	.00	.10	.08	.16	.00	.04	.04	.24
14	.04	.00	.01	.00	.00	.10	.04	.12	.00	.04	.06	.16
15	.09	.02	.01	.00	.01	.10	.06	.03	.00	.02	.06	.14
16	.11	.02	.01	.00	.01	.10	.04	.04	.00	.02	.04	.12
17	.00	.05	.00	.00	.01	.10	.08	.08	.00	.02	.05	.18
18	.00	.05	.00	.00	.01	.09	.14	.14	.00	.01	.02	.18
19	.00	.00	.00	.01	.01	.07	.16	.05	.00	.01	.06	.18
20	.08	.00	.00	.01	.01	.07	.08	.07	.00	.03	.02	.18
21	.00	.00	.00	.01	.01	.07	.02	.03	.00	.01	.02	.16
22	.04	.00	.00	.01	.02	.07	.03	.04	.00	.01	.06	.13
23	.00	.00	.00	.01	.02	.08	.03	.03	.00	.01	.03	.15
24	.07	.00	.00	.01	.03	.10	.18	.00	.00	.01	.02	.12
25	.21	.00	.00	.01	.04	.10	.19	.04	.02	.01	.03	.14
26	.11	.00	.00	.01	.05	.08	.16	.02	.04	.02	.04	.20
27	.04	.00	.00	.01	.05	.10	.08	.00	.03	.01	.04	.22
28	.04	.00	.00	.01	.05	.08	.07	.00	.02	.04	.04	.22
29	.07	.00	.00	.01	---	.12	.08	.00	.02	.01	.07	.28
30	.03	.00	.00	.01	---	.10	.07	.00	.03	.04	.08	.33
31	.03	---	.00	.00	---	.06	---	.08	---	.02	.05	---
TOTAL	1.87	.32	.10	.12	.33	2.37	2.87	1.82	.17	1.03	1.17	4.44
MEAN	.060	.011	.003	.004	.012	.076	.096	.059	.006	.033	.038	.15
MAX	.28	.09	.03	.01	.05	.12	.19	.26	.04	.08	.08	.33
MIN	.00	.00	.00	.00	.00	.00	.02	.00	.00	.01	.01	.04
AC-FT	3.7	.6	.2	.2	.7	4.7	5.7	3.6	.3	2.0	2.3	8.8

CAL YR 1981 TOTAL 6.21 MEAN .017 MAX .40 MIN .00 AC-FT 12
WTR YR 1982 TOTAL 16.61 MEAN .046 MAX .33 MIN .00 AC-FT 33

NOTE.--NO GAGE-HEIGHT RECORD NOV. 27 TO MAR. 1.

09251000 YAMPA RIVER NEAR MAYBELL, CO

LOCATION.--Lat 40°30'10", long 108°01'45", in NW¼ sec.2, T.6 N., R.95 W., Moffat County, Hydrologic Unit 14050002, on left bank 100 ft (30 m) downstream from bridge on U.S. Highway 40, 2.0 mi (3.2 km) downstream from Lay Creek, and 3.0 mi (4.8 km) east of Maybell.

DRAINAGE AREA.--3,410 mi^2 (8,830 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1904 to October 1905, June 1910 to November 1912, April 1916 to current year. Monthly discharge only for some periods, published in WSP 1313. No winter records prior to 1917.

GAGE.--Water-stage recorder. Datum of gage is 5,900.23 ft (1,798.390 m), National Geodetic Vertical Datum of 1929. See WSP 1733 for history of changes prior to Mar. 9, 1937.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by transbasin diversions, numerous storage reservoirs, and diversions above station for irrigation of about 65,000 acres (263 km^2) above and about 800 acres (3.24 km^2) below station.

AVERAGE DISCHARGE.--66 years (water years 1917-82), 1,542 ft^3/s (43.68 m^3/s), 1,117,000 acre-ft/yr (1,377 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 17,900 ft^3/s (507 m^3/s) May 19, 1917, gage height, 10.4 ft (3.17 m), from floodmarks, site and datum then in use, from rating curve extended above 12,000 ft^3/s (340 m^3/s); minimum daily, 2.0 ft^3/s (0.057 m^3/s) July 17-19, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,000 ft^3/s (198 m^3/s) and maximum (*):

		Discharge		Gage height				Discharge		Gage height	
Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)	Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)
May 5	2000	*10,700	303	8.42	2.566	June 19	1130	8,500	241	7.21	2.198
May 29	0230	9,080	257	7.41	2.259						

Minimum daily discharge, 43 ft^3/s (1.22 m^3/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	375	210	290	300	547	809	4910	7600	6670	1130	356
2	43	360	230	290	300	633	801	6080	7480	6720	939	309
3	46	346	250	290	300	642	846	7110	7210	6200	858	259
4	90	322	270	290	300	979	854	8420	6940	5450	861	217
5	158	318	290	290	300	783	853	10200	6790	5050	857	204
6	225	310	300	290	300	630	1080	9530	7300	4660	804	215
7	369	310	330	290	300	570	1040	6950	7710	4530	716	226
8	349	324	336	290	300	503	998	6140	7710	3670	642	200
9	316	330	335	290	300	518	950	5990	7330	3370	624	191
10	285	322	330	290	300	499	805	6300	7040	3540	613	225
11	376	297	313	290	300	517	773	6470	7080	3330	644	268
12	372	252	287	290	300	592	884	6180	7070	3100	626	303
13	348	215	308	290	300	800	2380	5920	7360	2930	589	327
14	408	239	320	290	300	768	2600	5810	7400	2810	585	429
15	384	258	321	290	310	745	3090	5080	7470	2710	634	471
16	500	264	296	290	320	850	3680	4700	7090	2600	686	537
17	460	235	217	290	330	861	3340	4730	7040	2190	598	545
18	467	236	193	290	340	908	2810	5000	7680	2040	519	542
19	444	247	259	290	350	809	3250	5520	8310	1900	504	431
20	402	242	313	290	400	841	3190	6190	7580	1740	518	372
21	363	266	305	300	500	873	2370	6510	7390	1540	497	333
22	358	222	300	300	550	729	2000	6240	7040	1360	451	334
23	339	237	300	300	600	660	2260	6850	6790	1250	482	351
24	316	240	300	300	500	618	3240	7670	7110	1270	443	327
25	303	219	300	300	550	592	4260	8330	6970	1230	422	305
26	317	233	300	300	600	616	4980	7770	7130	1170	388	340
27	313	213	300	300	572	667	4970	7800	7000	1060	369	391
28	305	193	300	300	565	753	5030	8660	6430	1160	346	527
29	314	221	300	300	---	862	4990	9020	6800	1480	352	612
30	344	205	300	300	---	1270	5360	8600	6800	1610	388	677
31	374	---	300	300	---	913	---	8160	---	1420	390	---
TOTAL	9733	8051	9013	9100	10687	22548	74493	212840	216650	89760	18475	10824
MEAN	314	268	291	294	382	727	2483	6866	7222	2895	596	361
MAX	500	375	336	300	600	1270	5360	10200	8310	6720	1130	677
MIN	43	193	193	290	300	499	773	4700	6430	1060	346	191
AC-FT	19310	15970	17880	18050	21200	44720	147800	422200	429700	178000	36650	21470

CAL YR 1981	TOTAL	287159	MEAN	787	MAX	6070	MIN	36	AC-FT	569600
WTR YR 1982	TOTAL	692174	MEAN	1896	MAX	10200	MIN	43	AC-FT	1373000

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued
(National Stream-Quality Accounting Network Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1950 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1950 to August 1973, July 1975 to current year.
WATER TEMPERATURES: November 1950 to August 1973, July 1975 to current year.
SUSPENDED-SEDIMENT DISCHARGE: December 1950 to May 1958, October 1975 to September 1976, October 1977 to September 1978.

INSTRUMENTATION.--Water-quality monitor since July 1975.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,060 micromhos Apr. 10, 1980; minimum daily, 94 micromhos June 14, 1959.
WATER TEMPERATURES: Maximum, 33.0°C Aug. 29, 1976; minimum, freezing point on many days during winter months.
SEDIMENT CONCENTRATIONS: Maximum daily, 6,180 mg/L Aug. 16, 1981; minimum daily, 1 mg/L several days during December 1975 to February 1976, Jan. 6, 1980.
SEDIMENT LOADS: Maximum daily, 47,100 tons (42,700 t) May 9, 1958; minimum daily, 0.04 ton (0.03 t) Oct. 2, 3, 1982.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 982 micromhos Mar. 19; minimum, 98 micromhos July 3.
WATER TEMPERATURES: Maximum, 25.0°C Aug. 20, 22; minimum 0.0°C many days during November to March.
SEDIMENT CONCENTRATIONS: Maximum daily, 1,790 mg/L April 2; minimum daily, 3 mg/L Jan. 19.
SEDIMENT LOADS: Maximum daily, 24,900 tons (22,586 t) April 26; minimum daily, 0.04 ton (0.03 t) Oct. 2, 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)
NOV 19...	1230	285	450	448	8.1	4.5	17	10.8	--	--	170
JAN 13...	1030	290	555	550	7.8	.0	62	10.8	< 4	K81	200
MAR 18...	1230	929	880	860	8.2	6.5	46	11.0	< 10	330	290
MAY 11...	0935	6610	195	201	8.1	9.5	120	9.8	K44	470	81
JUL 19...	1345	1970	150	164	7.8	19.5	6.4	7.9	--	--	56
SEP 14...	1100	420	490	487	8.4	11.0	54	9.0	K77	520	180

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
NOV 19...	38	18	36	1.2	2.3	120	90	13	.2	3.6
JAN 13...	43	23	43	1.4	2.2	150	120	15	.3	8.2
MAR 18...	52	40	78	2.0	3.2	150	290	17	.2	7.8
MAY 11...	21	6.9	6.9	.3	1.6	68	27	2.0	.2	9.6
JUL 19...	14	5.0	7.5	.5	1.2	54	21	2.7	.1	6.9
SEP 14...	39	21	35	1.2	2.7	129	110	13	.2	1.4

K BASED ON NON-IDEAL COLONY COUNT.

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV										
19...	283	273	.38	218	.01	.110	1.40	.040	.020	.040
JAN										
13...	344	345	.47	269	.32	.170	.63	.030	.020	<.010
MAR										
18...	599	579	.81	1500	1.4	.090	.71	.140	.040	.090
MAY										
11...	125	116	.17	2230	.22	.100	1.50	.250	.070	.050
JUL										
19...	94	91	.13	500	<.10	<.060	.70	.090	<.010	.020
SEP										
14...	327	300	.44	371	<.10	.070	1.10	.430	.040	.020

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)
NOV											
19...	--	1	2	100	52	--	<1	<1	<10	<10	<1
MAR											
18...	--	2	1	100	110	--	<1	<1	10	<10	14
MAY											
11...	3700	2	1	100	33	10	<1	<3	10	<10	2
SEP											
14...	1500	1	<1	<100	81	<10	<1	<1	<10	<10	<1

DATE	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
NOV											
19...	<3	4	7	770	100	2	4	--	40	15	.1
MAR											
18...	<1	19	5	2800	<3	13	<1	--	120	27	.1
MAY											
11...	<1	15	3	6200	41	8	<1	10	150	4	.1
SEP											
14...	1	7	2	1900	9	2	5	30	70	7	.1

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
NOV											
19...	<.1	--	<1	4	<1	<1	<1	1	20	27	>.01
MAR											
18...	<.1	--	18	2	7	7	1	<1	40	<4	--
MAY											
11...	<.1	1	8	<1	1	<1	10	<1	40	<12	<.01
SEP											
14...	<.1	3	7	6	1	<1	<1	<1	10	7	<.01

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
OCT												
04...	1240	67	35	6.3	--	--	--	--	--	--	--	--
11...	1805	365	189	186	--	--	--	--	--	--	--	--
17...	1745	431	258	300	--	--	--	--	--	--	--	--
25...	1530	285	54	42	--	--	--	--	--	--	--	--
31...	1235	300	26	27	--	--	--	--	--	--	--	--
NOV												
17...	1350	264	30	21	--	--	--	--	--	--	--	--
19...	1230	285	24	18	--	--	--	--	--	--	--	--
19...	1315	--	24	--	--	--	--	--	--	--	--	--
DEC												
04...	1630	270	377	275	--	--	--	--	--	--	--	--
13...	1700	285	52	40	--	--	--	--	--	--	--	--
19...	1425	252	37	25	--	--	--	--	--	--	--	--
27...	1345	300	23	19	--	--	--	--	--	--	--	--
JAN												
06...	1655	290	17	13	--	--	--	--	--	--	--	--
FEB												
14...	1510	300	25	20	--	--	--	--	--	--	--	--
MAR												
17...	1730	901	100	243	--	--	--	--	--	--	--	--
18...	1230	929	99	248	--	--	--	--	--	--	--	--
APR												
17...	1140	3200	677	5850	--	--	--	--	--	--	--	--
MAY												
11...	0935	6610	716	12800	--	15	20	30	44	52	67	99
16...	1210	4630	301	3760	--	--	--	--	--	--	--	--
JUN												
15...	2005	7250	185	3620	50	--	--	--	--	--	--	--
27...	1920	6710	133	2410	54	--	--	--	--	--	--	--
JUL												
18...	1120	2120	51	292	--	--	--	--	--	--	--	--
19...	1345	1970	35	186	--	--	--	--	--	--	--	--
AUG												
05...	1700	852	19	44	--	--	--	--	--	--	--	--
15...	1315	635	8	14	--	--	--	--	--	--	--	--
SEP												
18...	1555	565	35	53	--	--	--	--	--	--	--	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	704	451	546	568	616	769	802	281	144	109	---	420
2	722	450	600	544	613	758	814	263	146	108	---	413
3	686	452	587	537	598	761	824	234	147	105	---	425
4	636	469	600	542	597	794	861	230	146	106	---	422
5	629	489	563	542	604	778	850	217	147	113	258	422
6	625	497	542	550	605	785	826	210	143	122	274	416
7	642	494	519	563	612	795	813	210	136	133	292	439
8	590	485	515	567	616	802	768	213	137	145	304	468
9	541	476	517	568	613	797	787	208	134	152	314	457
10	499	471	505	572	603	804	829	200	134	153	310	439
11	488	470	504	574	590	789	825	192	133	155	296	436
12	453	471	506	561	581	798	810	234	134	147	303	453
13	444	476	514	545	574	811	843	245	131	151	321	453
14	447	485	521	528	576	---	913	264	129	153	332	485
15	470	489	514	516	572	---	845	258	129	160	337	473
16	485	490	508	515	570	---	721	263	132	166	337	456
17	483	486	512	525	568	916	---	265	132	165	325	420
18	499	480	535	529	548	891	---	257	127	158	327	383
19	482	472	531	530	570	928	---	249	123	153	335	376
20	455	466	543	537	597	886	422	227	124	175	338	372
21	441	473	518	549	605	863	428	219	122	184	335	375
22	446	473	523	556	618	851	---	222	122	197	339	392
23	475	486	559	560	617	838	---	208	122	216	353	397
24	476	509	560	559	705	851	---	191	121	205	---	408
25	469	510	541	557	781	837	369	180	136	181	412	417
26	443	495	584	557	788	820	327	174	126	189	383	420
27	457	510	627	560	770	825	306	177	124	209	374	419
28	462	522	626	567	756	858	295	153	127	---	381	443
29	454	504	631	575	---	877	315	145	115	---	392	485
30	450	520	619	583	---	834	279	141	111	---	411	492
31	438	---	599	598	---	798	---	142	---	---	415	---
MEAN	516	484	551	553	624	826	661	215	131	156	338	429

WTR YR 1982 MEAN 454 MAX 928 MIN 105

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.5	13.0	6.0	4.5	.5	.0	.0	.0	.0	.0	1.0	.0
2	15.5	11.5	6.0	5.0	.5	.0	.0	.0	.0	.0	2.0	.0
3	16.5	12.0	6.5	5.0	.5	.0	.0	.0	.0	.0	1.5	.0
4	12.5	11.0	7.0	5.5	.5	.0	.0	.0	.0	.0	1.5	.0
5	14.0	11.0	7.0	5.5	.5	.0	.0	.0	.0	.0	2.0	.5
6	14.0	10.0	7.0	5.5	.5	.0	.0	.0	.0	.0	3.0	.5
7	14.0	11.5	7.5	6.5	.5	.0	.0	.0	.0	.0	3.0	1.5
8	12.5	11.0	7.0	6.0	.5	.0	.0	.0	.0	.0	2.5	1.0
9	12.0	10.0	7.0	5.5	.5	.0	.0	.0	.0	.0	4.0	1.0
10	12.5	10.0	6.5	5.0	.5	.0	.0	.0	.0	.0	4.0	3.0
11	11.0	9.0	6.0	4.5	1.0	.0	.0	.0	.0	.0	6.0	3.5
12	10.0	8.0	6.0	4.5	.5	.0	.0	.0	.0	.0	6.0	4.5
13	11.0	8.5	6.5	5.0	.5	.0	.0	.0	.0	.0	6.5	4.0
14	11.0	9.0	6.5	5.5	1.0	.0	.0	.0	.0	.0	---	---
15	10.0	8.5	6.5	5.5	1.0	.0	.0	.0	.0	.0	---	---
16	9.5	8.0	7.0	5.0	.5	.0	.0	.0	.0	.0	---	---
17	8.5	7.0	6.5	4.5	.5	.0	.0	.0	.0	.0	6.0	5.5
18	9.5	7.0	5.0	3.5	.5	.0	.0	.0	.0	.0	7.5	4.5
19	10.0	7.0	4.5	2.5	.0	.0	.0	.0	.0	.0	7.0	5.0
20	10.0	7.0	3.0	2.0	.5	.0	.0	.0	.0	.0	4.5	3.0
21	10.0	7.0	3.5	2.0	.5	.0	.0	.0	.0	.0	5.0	2.5
22	9.5	6.5	4.0	2.5	.0	.0	.0	.0	.0	.0	5.0	3.0
23	9.0	6.0	4.0	3.0	.0	.0	.0	.0	.0	.0	6.0	3.5
24	7.5	6.0	4.5	2.5	.0	.0	.0	.0	.0	.0	7.0	4.5
25	8.0	4.5	3.5	1.0	.0	.0	.0	.0	.0	.0	7.5	5.0
26	8.0	6.5	1.5	.5	.0	.0	.0	.0	.0	.0	7.0	6.5
27	8.5	7.0	2.0	.0	.0	.0	.0	.0	.0	.0	7.0	6.0
28	8.5	7.5	1.5	.5	.0	.0	.0	.0	1.5	.0	8.0	6.0
29	8.5	7.5	.5	.0	.0	.0	.0	.0	---	---	7.5	5.0
30	7.5	6.0	.5	.0	.0	.0	.0	.0	---	---	4.5	3.5
31	6.0	5.0	---	---	.0	.0	.0	.0	---	---	5.0	3.0
MONTH	19.5	4.5	7.5	.0	1.0	.0	.0	.0	1.5	.0	8.0	.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.5	4.5	11.0	8.5	12.5	11.0	16.0	15.5	23.5	20.0	22.0	17.5
2	5.5	4.0	11.5	10.0	12.0	10.5	16.0	14.5	22.0	19.0	22.0	17.0
3	6.0	5.0	10.5	10.0	13.0	11.0	16.0	14.0	23.5	19.0	22.5	17.0
4	7.0	5.5	10.0	9.0	13.0	11.0	16.5	15.0	24.0	20.0	22.0	17.0
5	6.0	4.0	9.0	7.5	12.5	11.0	16.0	15.0	24.5	20.5	23.0	17.0
6	7.0	5.5	8.0	7.0	12.5	11.0	16.0	14.0	24.5	21.0	21.5	15.5
7	6.5	5.0	8.5	7.0	12.0	10.5	16.5	14.0	24.0	21.0	19.5	16.5
8	6.0	3.0	9.5	6.0	12.5	10.5	17.5	15.0	23.5	20.0	19.5	16.0
9	---	---	10.0	8.5	12.0	10.5	18.0	16.0	23.0	19.5	21.5	15.5
10	---	---	10.5	9.0	12.5	10.5	17.5	15.0	21.5	19.5	19.5	17.0
11	---	---	9.0	8.0	13.5	10.5	18.5	16.0	22.5	18.0	16.5	14.0
12	---	---	8.5	7.5	13.5	12.0	19.5	16.5	21.0	19.0	16.5	12.5
13	10.5	8.0	8.0	7.0	13.0	11.5	19.0	17.5	22.0	18.0	14.5	12.0
14	9.5	7.5	8.0	6.5	13.0	11.5	19.5	16.0	23.5	19.5	13.0	11.0
15	9.5	8.0	9.0	7.0	12.5	11.0	19.5	17.0	24.0	21.0	15.0	11.0
16	8.5	7.5	11.0	8.5	13.5	11.0	19.5	16.5	24.0	21.0	16.0	12.5
17	8.0	6.5	12.0	10.0	15.0	13.0	20.0	17.5	24.0	20.5	17.0	14.0
18	9.0	6.0	12.0	10.5	14.5	13.0	20.0	17.0	24.5	20.5	17.5	14.0
19	7.5	5.5	11.5	11.0	14.0	12.0	21.5	18.0	24.5	20.5	18.0	15.0
20	5.5	3.5	11.5	10.5	14.5	12.0	22.0	18.5	25.0	21.0	19.0	15.0
21	6.5	2.5	12.0	9.5	14.5	13.0	23.0	19.5	24.5	21.0	19.5	15.5
22	9.0	5.0	13.0	10.5	14.5	13.0	22.5	20.5	25.0	21.0	19.5	15.5
23	10.5	7.5	13.5	12.0	14.0	13.0	23.5	20.0	24.5	20.5	19.5	16.0
24	11.5	8.5	12.5	11.5	14.5	12.0	24.0	21.0	---	---	19.5	15.5
25	11.0	9.0	11.0	10.0	14.5	13.5	24.0	20.5	21.0	19.5	17.0	15.5
26	9.5	8.5	12.0	10.0	14.5	13.0	24.0	21.0	22.0	18.0	18.0	15.0
27	9.0	8.0	13.5	11.5	15.0	12.5	24.5	21.5	23.0	18.5	16.0	12.5
28	9.5	7.5	12.5	11.5	16.5	14.0	22.5	20.0	20.5	18.5	12.5	9.5
29	9.5	8.0	12.0	10.5	16.0	15.0	22.0	19.0	22.5	18.0	10.0	9.0
30	10.0	8.5	11.5	10.5	15.5	14.5	23.5	19.5	22.0	18.5	10.5	9.0
31	---	---	12.0	9.5	---	---	23.5	20.5	21.5	18.5	---	---
MONTH	11.5	2.5	13.5	6.0	16.5	10.5	24.5	14.0	25.0	18.0	23.0	9.0
YEAR	25.0	.0										

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	45	7	.85	375	---	40	210	---	30
2	43	3	.35	360	---	40	230	---	40
3	46	3	.37	346	51	48	250	---	160
4	90	36	8.7	322	26	23	270	330	240
5	158	160	68	313	50	43	290	---	240
6	225	250	152	310	66	55	300	---	250
7	369	185	184	310	51	43	330	---	250
8	349	130	122	324	34	30	336	---	250
9	316	260	222	330	---	30	335	---	200
10	285	145	112	322	23	20	330	---	150
11	376	140	142	297	18	14	313	---	50
12	372	360	362	252	---	15	287	---	45
13	348	200	188	215	54	31	308	52	48
14	408	190	209	239	36	23	320	---	50
15	384	210	218	258	28	20	321	---	50
16	500	300	405	264	---	20	296	---	30
17	460	253	314	235	64	41	217	---	25
18	467	190	240	236	99	63	193	---	20
19	444	145	174	247	26	17	259	37	26
20	402	28	30	242	28	18	313	---	25
21	363	78	76	266	21	15	305	---	25
22	358	63	61	222	26	16	300	---	25
23	339	51	47	237	30	19	300	---	25
24	316	45	38	240	25	16	300	---	25
25	303	32	26	219	---	16	300	---	25
26	317	---	30	233	58	36	300	---	25
27	313	---	30	213	---	15	300	23	23
28	305	---	30	193	---	15	300	---	25
29	314	60	51	221	---	20	300	---	20
30	344	62	58	205	---	20	300	---	20
31	374	42	42	---	---	---	300	---	20
TOTAL	9733	---	3641.27	8051	---	822	9013	---	2437
		JANUARY			FEBRUARY			MARCH	
1	290	---	15	300	---	30	547	260	384
2	290	---	15	300	---	30	633	400	684
3	290	---	15	300	---	30	642	416	995
4	290	---	15	300	---	30	979	280	740
5	290	---	15	300	---	30	783	---	550
6	290	17	13	300	---	30	630	---	350
7	290	---	15	300	---	30	570	100	154
8	290	---	15	300	---	30	503	---	60
9	290	---	20	300	---	30	518	45	63
10	290	---	20	300	36	29	499	65	88
11	290	---	20	300	---	30	517	55	77
12	290	---	20	300	---	20	592	55	88
13	290	---	20	300	17	14	800	140	302
14	290	27	21	300	23	19	768	170	353
15	290	---	20	310	19	16	745	120	241
16	290	29	23	320	14	12	850	105	241
17	290	---	20	330	16	14	861	100	232
18	290	---	20	340	50	46	908	111	272
19	290	---	20	350	40	38	809	103	225
20	290	---	20	400	32	35	841	103	234
21	300	---	15	500	145	196	873	80	139
22	300	---	15	550	370	549	729	60	118
23	300	17	14	600	790	1280	660	50	89
24	300	21	17	500	---	800	618	65	108
25	300	---	20	550	520	772	592	---	75
26	300	---	25	600	400	648	616	51	85
27	300	38	30	572	200	309	667	---	100
28	300	---	30	565	205	313	753	---	250
29	300	---	30	---	---	---	862	---	350
30	300	---	30	---	---	---	1270	---	500
31	300	---	30	---	---	---	913	180	444
TOTAL	9100	---	618	10687	---	5410	22548	---	8641

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	809	110	240	4910	360	4770	7600	559	11500
2	801	66	143	6080	800	13100	7480	572	11500
3	846	53	121	7110	1020	19600	7210	---	10000
4	854	46	106	8420	1100	25000	6940	---	9000
5	853	50	115	10200	1080	29700	6790	---	7000
6	1080	61	178	9530	860	22100	7300	---	7000
7	1040	72	202	6950	460	8630	7710	---	6000
8	998	44	119	6140	550	9120	7710	286	5950
9	950	49	126	5990	408	6600	7330	156	3090
10	805	34	74	6300	---	7000	7040	---	550
11	773	27	56	6470	439	7670	7080	29	550
12	884	85	203	6180	346	5770	7070	---	550
13	2380	754	5200	5920	308	4920	7360	---	1500
14	2600	640	4490	5810	371	5820	7400	---	3000
15	3090	780	6510	5080	305	4180	7470	185	3730
16	3680	1030	10200	4700	288	3650	7090	---	3000
17	3340	690	6220	4730	378	4830	7040	---	3000
18	2810	440	3340	5000	304	4100	7680	---	3500
19	3250	490	4300	5520	390	5810	8310	---	5000
20	3190	430	3700	6190	480	8020	7580	---	3500
21	2370	235	1500	6510	---	8000	7390	---	3500
22	2000	175	945	6240	---	8000	7040	---	3000
23	2260	185	1130	6850	---	8000	6790	---	2500
24	3240	355	3110	7670	---	8000	7110	---	3000
25	4260	880	10700	8330	---	10000	6970	---	3000
26	4980	1790	24900	7770	390	8180	7130	---	3000
27	4970	950	12700	7800	377	7940	7000	165	3120
28	5030	620	8420	8660	598	14000	6430	---	3000
29	4990	450	6060	9020	637	15500	6800	207	3800
30	5360	620	8970	8600	520	12100	6800	147	2700
31	---	---	---	8160	403	8880	---	---	---
TOTAL	74493	---	124078	212840	---	308990	216650	---	129540
		JULY			AUGUST			SEPTEMBER	
1	6670	142	2550	1130	---	300	356	27	26
2	6720	179	3260	939	---	100	309	25	21
3	6200	140	2340	858	---	45	259	18	13
4	5450	224	3900	861	---	45	217	17	10
5	5050	222	3030	857	19	44	204	12	6.6
6	4660	300	3800	804	---	40	215	34	20
7	4530	104	1270	716	---	30	226	66	40
8	3670	---	1000	642	---	15	200	80	43
9	3370	---	800	624	---	15	191	33	17
10	3540	---	900	613	---	15	225	72	44
11	3330	---	800	644	---	15	268	62	45
12	3100	---	700	626	---	15	303	90	74
13	2930	---	600	589	---	10	327	76	67
14	2810	---	500	585	---	10	429	76	88
15	2710	---	400	634	8	14	471	59	75
16	2600	56	390	686	---	15	537	56	81
17	2190	65	384	598	---	13	545	51	75
18	2040	68	375	519	---	20	542	43	63
19	1900	49	251	504	---	20	431	---	50
20	1740	55	258	518	22	31	372	---	40
21	1540	64	266	497	18	24	333	---	20
22	1360	38	140	451	8	9.7	334	23	21
23	1250	39	132	482	68	88	351	18	17
24	1270	84	288	443	296	354	327	18	16
25	1230	58	193	422	216	246	305	---	15
26	1170	96	284	388	43	45	340	14	13
27	1060	265	811	369	29	29	391	17	18
28	1160	---	250	346	38	35	527	29	41
29	1480	143	571	352	27	26	612	110	182
30	1610	---	650	388	30	31	677	88	161
31	1420	---	500	390	29	31	---	---	---
TOTAL	89760	---	31593	18475	---	1730.7	10824	---	1402.6
YEAR	692174		618903.57						

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO

LOCATION.--40°59'58", long 107°08'34", in SW¼NW¼ sec.15, T.12 N., R.87 W., Routt County, Hydrologic Unit 14050003, on left bank just downstream from highway bridge at Focus Ranch, 0.2 mi (0.3 km) downstream from Spring Creek, and 12 mi (19 km) east of Slater.

DRAINAGE AREA.--285 mi^2 (738 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to September 1947, October 1950 to current year.

REVISED REOCRDS.--WSP 1733: 1960.

GAGE.--Water-stage recorder. Datum of gage is 6,831.00 ft (2,082.089 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for winter period, which are poor. Diversions for irrigation of about 2,000 acres (8.09 km^2) above station.

AVERAGE DISCHARGE.--37 years, 228 ft^3/s (6.457 m^3/s), 165,200 acre-ft/yr (204 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,180 ft^3/s (118 m^3/s) Apr. 25, 1974, gage height, 8.95 ft (2.728 m), from recorded range in stage; minimum daily, 8.6 ft^3/s (0.24 m^3/s) Sept. 10, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,600 ft^3/s (45 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 4	2000	* 2,380	67.4	7.14	2.176	June 15	0100	1,870	53.0	6.85	2.088
May 27	2300	2,210	62.6	7.04	2.146	June 25	2400	2,340	66.3	7.25	2.210

Minimum daily discharge, 18 ft^3/s (0.51 m^3/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	80	36	44	38	47	46	1220	1610	1120	91	30
2	20	71	37	44	34	46	50	1490	1550	961	83	28
3	28	53	38	43	27	45	50	1710	1470	825	83	27
4	91	45	39	43	21	43	49	2170	1440	747	79	28
5	80	43	41	44	19	41	47	1740	1500	665	77	30
6	50	42	42	42	20	41	47	1350	1550	674	76	31
7	35	45	43	41	21	44	45	1160	1440	530	74	29
8	65	42	44	41	22	47	43	1180	1420	481	74	30
9	76	38	45	42	21	50	41	1300	1300	466	72	40
10	40	33	45	39	22	51	40	1350	1340	431	72	35
11	34	30	45	38	22	48	54	1190	1380	406	69	49
12	40	33	44	40	23	48	94	1050	1460	383	69	71
13	47	37	43	41	24	47	99	1070	1540	336	66	51
14	56	40	42	42	25	47	150	880	1590	334	67	74
15	45	42	40	41	27	48	205	811	1630	291	65	64
16	45	42	40	40	28	50	195	884	1550	251	59	50
17	50	41	40	41	29	51	170	911	1580	226	55	32
18	44	43	40	42	30	49	175	1050	1630	204	53	28
19	44	45	41	43	31	52	170	1230	1510	186	51	24
20	44	32	42	42	33	49	163	1330	1400	169	49	22
21	41	34	43	41	36	43	154	1260	1350	155	45	22
22	35	36	42	41	40	37	204	1460	1370	140	43	22
23	31	38	40	42	40	38	335	1670	1460	130	40	21
24	40	39	41	43	39	40	532	1760	1350	126	37	19
25	43	40	42	45	38	39	679	1570	1420	117	36	19
26	57	34	42	47	39	42	743	1600	1600	172	63	29
27	46	32	41	47	41	43	736	1810	1270	196	46	37
28	48	33	40	45	45	47	804	1870	1240	179	40	49
29	71	34	41	43	---	50	904	1750	1180	216	39	59
30	71	35	42	41	---	50	897	1760	1090	150	37	53
31	48	---	44	39	---	48	---	1690	---	111	33	---
TOTAL	1483	1232	1285	1307	835	1421	7921	43276	43220	11378	1843	1103
MEAN	47.8	41.1	41.5	42.2	29.8	45.8	264	1396	1441	367	59.5	36.8
MAX	91	80	45	47	45	52	904	2170	1630	1120	91	74
MIN	18	30	36	38	19	37	40	811	1090	111	33	19
AC-FT	2940	2440	2550	2590	1660	2820	15710	85840	85730	22570	3660	2190

CAL YR 1981 TOTAL 54354.1 MEAN 149 MAX 1260 MIN 9.4 AC-FT 107800
WTR YR 1982 TOTAL 116304.0 MEAN 319 MAX 2170 MIN 18 AC-FT 230700

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
OCT 22...	1300	34	180	167	7.8	4.0	59	18	3.5	8.7	.5	1.6
MAY 19...	1500	1140	--	78	--	7.0	26	7.4	1.9	4.0	.4	.7
JUN 16...	1230	1440	--	46	--	7.0	25	6.7	1.9	3.0	.3	1.2
JUL 29...	1500	220	--	85	--	16.0	39	12	2.3	3.0	.2	1.2
SEP 10...	1230	35	--	154	--	11.0	56	17	3.4	9.1	.5	1.3

DATE	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT 22...	73	0	60	11	3.4	.5	16	140	.13	12.9	.19	.060
MAY 19...	--	--	32	2.0	1.0	.2	14	50	.07	154	.00	.070
JUN 16...	--	--	27	1.0	.9	.3	11	42	.06	163	.00	.000
JUL 29...	--	--	40	2.0	.4	.3	11	56	.08	33.3	.00	.000
SEP 10...	--	--	65	11	3.4	.5	8.8	93	.13	8.8	.00	.020

DATE	TIME	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
MAY 19...	1500	< .01	< .01	< .01	< .01
JUL 29...	1500	< .01	< .01	< .01	< .01
SEP 10...	1230	< .01	< .01	< .01	< .01

09255000 SLATER FORK NEAR SLATER, CO

LOCATION.--Lat 40°58'57", long 107°22'56", in SW¼NE¼ sec.21, T.12 N., R.89 W., Moffat County, Hydrologic Unit 14050003, on right bank 15 ft (5 m) downstream from highway bridge, 1.0 mi (1.6 km) upstream from mouth, and 1.5 mi (2.4 km) south of Slater.

DRAINAGE AREA.--161 mi² (417 km²).

PERIOD OF RECORD.--May to October, December 1910, March to October 1911, and April to May 1912 (published as Slater Creek), July 1931 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 618: 1910-11. WSP 764: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,600 ft (2,012 m), from river-profile map. May 28, 1910, to May 25, 1912, nonrecording gage at site 1.5 mi (2.4 km) upstream at different datum. July 9, 1931, to May 6, 1932, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum.

REMARKS.--Records fair except those for winter period, which are poor. Diversions for irrigation of about 500 acres (2.02 km²) above station.

AVERAGE DISCHARGE.--51 years (water years 1932-82), 74.2 ft³/s (2.101 m³/s), 53,760 acre-ft/yr (66.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft³/s (52.7 m³/s) May 8, 1974, gage height, 10.75 ft (3.277 m), from peak indicator; maximum gage height, 10.98 ft (3.347 m) May 28, 1979, from floodmark; no flow Aug. 2-10, 1934, Aug. 18, 25-27, 1936, Aug. 29 to Sept. 3, 1954, Aug. 3, 4, 15, 16, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 430 ft³/s (12 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 4	2100	* 1,140	32.3	8.98	2.737	June 26	0500	597	16.9	6.93	2.112
May 24	0300	663	18.8	7.23	2.204						

Minimum daily discharge, 4.8 ft³/s (0.14 m³/s) Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	29	18	15	14	27	26	488	421	321	32	8.0
2	6.4	30	18	15	13	27	28	610	412	242	26	6.0
3	8.0	30	18	15	11	26	30	770	365	195	30	5.7
4	50	27	19	15	8.8	26	32	1110	360	176	27	4.8
5	56	25	20	14	8.0	26	30	829	362	159	22	5.1
6	33	25	20	14	8.3	27	30	534	367	171	19	6.2
7	23	24	20	13	8.7	26	29	458	313	136	17	8.5
8	59	23	19	14	9.0	26	26	462	328	120	15	11
9	73	19	19	15	8.7	26	29	517	292	128	15	11
10	36	20	19	15	8.9	37	27	521	304	123	15	10
11	27	18	20	15	9.2	26	30	444	307	99	14	18
12	34	20	18	15	9.7	27	84	402	308	88	14	31
13	38	22	19	15	10	32	78	380	328	82	15	22
14	43	19	18	15	12	33	109	288	324	83	18	40
15	35	20	18	16	13	37	128	266	296	77	14	38
16	44	22	18	16	15	35	108	273	291	65	15	43
17	40	22	18	16	16	35	94	317	330	56	14	31
18	34	23	17	16	18	31	107	393	376	46	13	23
19	29	22	18	16	20	30	91	448	308	42	11	18
20	30	18	18	16	22	30	77	490	275	37	10	16
21	28	19	18	16	23	28	71	403	250	30	11	16
22	24	20	16	16	22	28	76	486	285	24	12	15
23	22	21	15	16	22	28	121	529	412	22	17	14
24	26	22	14	16	21	28	211	552	354	18	20	12
25	22	21	15	16	20	25	270	468	319	15	20	12
26	27	19	15	16	21	29	313	426	451	37	26	19
27	28	21	15	16	23	28	341	525	316	48	28	25
28	27	20	16	16	25	27	334	527	295	55	27	46
29	26	22	16	16	---	26	416	453	279	42	30	51
30	26	18	16	16	---	24	363	453	250	73	25	45
31	26	---	16	15	---	25	---	421	---	44	10	---
TOTAL	994.4	661	544	476	420.3	886	3709	15243	9878	2854	582	611.3
MEAN	32.1	22.0	17.5	15.4	15.0	28.6	124	492	329	92.1	18.8	20.4
MAX	73	30	20	16	25	37	416	1110	451	321	32	51
MIN	6.4	18	14	13	8.0	24	26	266	250	15	10	4.8
AC-FT	1970	1310	1080	944	834	1760	7360	30230	19590	5660	1150	1210

CAL YR 1981 TOTAL 17347.33 MEAN 47.5 MAX 465 MIN .52 AC-FT 34410
WTR YR 1982 TOTAL 36859.00 MEAN 101 MAX 1110 MIN 4.8 AC-FT 73110

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY

LOCATION.--Lat 41°01'42", long 107°32'55", in SE¼NW¼ sec.8, T.12 N., R.90 W., Carbon County, WY, Hydrologic Unit 14050003, on left bank 200 ft (61 m) upstream from highway bridge, 1,000 ft (305 m) upstream from Willow Creek, and 0.8 mi (1.3 km) west of Dixon.

DRAINAGE AREA.--988 mi² (2,559 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1910 to September 1923, March 1938 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1920(M).

GAGE.--Water-stage recorder. Datum of gage is 6,331.22 ft (1,929.756 m), National Geodetic Vertical Datum of 1929. May 27, 1910, to Sept. 30, 1923, nonrecording gage on highway bridge 200 ft (61 m) downstream at datum 2.98 ft (0.908 m) higher. Mar. 15, 1938, to Sept. 30, 1957, water-stage recorder at site 225 ft (69 m) downstream at datum 2.98 ft (0.908 m) higher; Oct. 1, 1957, to June 6, 1968, at site 850 ft (259 m) downstream at present datum; and June 7 to Sept. 30, 1968, at site 225 ft (69 m) downstream at present datum.

REMARKS.--Records good except those for periods of no gage-height record, Mar. 16 to Apr. 22, May 12, 13, July 25-29, which are poor. Diversions for irrigation of about 9,500 acres (38.4 km²) above station. One diversion above station for irrigation of about 3,000 acres (12.1 km²) below. Transbasin diversions above station.

AVERAGE DISCHARGE.--46 years (water years 1911-23, 1939-71), 514 ft³/s (14.56 m³/s), 372,400 acre-ft/yr (459 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 9,600 ft³/s (272 m³/s) May 26, 1920, gage height, 11.6 ft (3.54 m), present datum; maximum gage height, 11.74 ft (3.578 m) May 30, 1971; no flow Sept. 19, 20, 22, 1977, Aug. 7, 17, 18, 27-29, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,200 ft³/s (91 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
a May 4	unknown	4,090	116	b 9.32	2.841	May 24	0630	3,720	105	9.02	2.749

a about
b from floodmark

Minimum daily discharge during period of operation, 0.10 ft³/s (0.003m³/s) Sept. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3						244	2700	2810	2060	170	7.8
2	8.3						217	3260	2670	1930	150	3.8
3	8.3						195	3500	2480	1560	162	1.3
4	49						252	3800	2410	1430	150	.10
5	214						204	3500	2460	1300	125	.10
6	129						230	2850	2640	1300	101	.11
7	88						198	2360	2490	1200	79	.12
8	79						207	1900	2380	1100	69	.13
9	231						237	2000	2200	1090	36	.21
10	150						241	2400	2280	1020	46	1.1
11	111						307	2090	2390	940	39	8.5
12	---						647	1780	2490	880	43	51
13	---						737	1710	2610	820	44	60
14	---						935	1570	2710	770	51	79
15	---						1140	1400	2720	716	64	129
16	---						1090	1680	2630	533	35	125
17	---						921	1970	2630	474	26	90
18	---						1020	2200	2790	369	20	59
19	---						842	2490	2620	319	16	36
20	---						695	2710	2430	279	13	20
21	---						627	2500	2270	244	12	13
22	---						695	2730	2230	210	11	7.8
23	---						928	2980	2260	184	11	15
24	---						1420	3260	2230	155	11	32
25	---						1910	2930	2310	136	11	21
26	---						2080	2690	2270	165	25	26
27	---						2100	3120	2240	295	23	90
28	---						1990	3260	2230	295	20	145
29	---						2570	2950	2100	369	20	210
30	---						2220	3020	2050	328	19	214
31	---						---	3030	---	220	13	---
TOTAL	---						27099	80340	73030	22691	1615	1446.07
MEAN	---						903	2592	2434	732	52.1	48.2
MAX	---						2570	3800	2810	2060	170	214
MIN	---						195	1400	2050	136	11	.10
AC-FT	---						53750	159400	144900	45010	3200	2870

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
MAY										
18...	1600	2160	140	10.0	46	13	3.2	3.0	.2	1.0
JUN										
15...	1330	2770	82	8.0	28	7.0	2.6	4.0	.3	1.2
JUL										
29...	1130	388	178	17.0	75	22	4.9	6.0	.3	1.8
SEP										
09...	1330	.21	385	19.0	160	43	12	26	.9	2.4

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
MAY										
18...	37	6.8	2.5	.3	14	66	.09	385	.10	.110
JUN										
15...	32	1.6	.5	.3	10	46	.06	344	.00	.050
JUL										
29...	75	10	.6	.3	13	100	.14	105	.00	.040
SEP										
09...	180	34	4.6	.7	7.0	230	.32	.13	.00	.010

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM
OCT								
21...	1400	--	8	--	--	--	--	--
MAY								
18...	1600	2160	182	1060	--	--	--	--
JUN								
15...	1330	2770	172	1290	--	--	--	--
JUL								
29...	1130	388	--	--	--	--	--	--
SEP								
09...	1330	.21	142	.08	1	3	10	23

DATE	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
OCT							
21...	--	--	--	--	--	--	--
MAY							
18...	--	--	--	--	--	--	--
JUN							
15...	--	--	--	--	--	--	--
JUL							
29...	--	--	--	--	--	--	--
SEP							
09...	28	29	33	44	64	98	100

09258000 WILLOW CREEK NEAR DIXON, WY

LOCATION.--Lat 40°54'56", long 107°31'16", on line between secs. 8 and 17, T. 11 N., R. 90 W., Moffat County, Colo., Hydrologic Unit 14050003, on right bank 6.2 mi (10.0 km) south of Colorado-Wyoming State line, 8.0 mi (12.9 km) upstream from mouth, and 8.3 mi (13.4 km) south of Dixon.

DRAINAGE AREA.--24 mi^2 (62 km^2), approximately.

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,700 ft (2,042 m), from topographic map.

REMARKS.--Records fair except those for winter period, which are poor. One small ditch diverts water above station for irrigation. Regulation by Elk Lake, capacity, 400 acre-ft (493,000 m^3).

AVERAGE DISCHARGE.--29 years, 9.66 ft^3/s (0.274 m^3/s), 7,000 acre-ft/yr (8.63 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 319 ft^3/s (9.03 m^3/s) Apr. 25, 1974, gage height, 5.42 ft (1.652 m), from rating curve extended above 160 ft^3/s (4.5 m^3/s); no flow Sept. 17-19, 1955, many days July through September 1977, and Aug. 8-16, 1982.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 70 ft^3/s (2.0 m^3/s) and maximum (*):

		Discharge		Gage height				Discharge		Gage height	
Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)	Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)
April 13	2000	94	2.66	3.90	1.189	June 18	0100	88	2.49	3.82	1.164
May 3	2300	85	2.41	3.80	1.158	June 25	2400	87	2.46	3.82	1.164
May 17	1800	* 157	4.45	4.36	1.329	July 1	0900	72	2.04	3.67	1.119

No flow Aug. 8-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	3.1	3.2	3.6	2.5	7.1	4.8	38	25	58	1.9	2.3
2	1.4	3.2	3.3	3.4	2.4	6.7	5.6	47	26	41	.13	2.2
3	3.6	3.3	3.5	3.5	2.1	6.4	6.4	59	24	32	3.1	2.2
4	14	3.4	3.9	3.7	1.8	5.6	7.4	75	25	29	5.9	2.2
5	9.2	3.5	4.4	4.0	1.7	3.5	6.7	46	27	27	5.0	2.1
6	4.5	3.7	4.5	4.0	1.8	3.6	6.2	29	29	26	4.6	2.2
7	3.4	3.8	4.6	3.6	1.8	3.8	5.6	24	25	20	.50	2.2
8	11	3.9	5.2	3.5	1.9	4.0	5.5	23	27	18	.00	2.3
9	7.0	2.9	4.6	3.6	1.8	4.3	5.3	27	24	20	.00	2.3
10	3.8	2.9	4.5	3.6	1.9	4.7	5.6	28	26	19	.00	2.1
11	3.8	2.6	4.3	3.5	2.0	5.3	12	24	27	16	.00	6.9
12	5.5	2.7	4.0	3.4	2.1	6.0	36	20	30	14	.00	5.7
13	6.8	2.7	3.7	3.3	2.2	6.9	38	24	34	14	.00	4.0
14	12	2.8	3.8	3.2	2.3	8.3	47	19	36	14	.00	6.1
15	5.1	3.0	3.6	3.3	2.4	10	35	17	33	13	.00	5.2
16	14	3.1	3.6	3.4	2.5	11	21	16	32	12	.00	5.3
17	6.8	3.0	3.5	3.2	2.8	8.4	18	43	41	11	.29	4.6
18	5.8	3.2	3.5	3.4	3.3	8.7	19	25	53	10	2.9	3.5
19	4.4	3.2	3.5	3.3	3.5	8.8	14	28	41	9.3	2.8	2.7
20	4.4	3.2	3.6	3.2	4.7	6.3	10	27	37	8.0	2.8	2.6
21	3.7	3.3	3.6	3.1	5.8	6.0	10	21	37	2.6	2.8	2.7
22	3.1	3.2	3.5	3.0	10	5.6	15	26	42	2.0	2.7	2.3
23	2.9	3.1	3.4	2.8	16	5.3	28	27	54	1.3	2.9	2.2
24	3.9	3.2	3.3	2.7	17	4.7	34	27	46	.79	2.8	2.0
25	3.2	3.1	3.4	2.7	13	4.7	33	21	46	.46	2.5	2.1
26	4.5	2.8	3.4	2.8	10	5.6	31	20	56	4.4	2.6	2.9
27	4.8	2.9	3.5	2.8	9.4	6.8	31	28	40	3.3	2.6	5.6
28	4.4	3.0	3.7	2.8	7.9	7.2	32	31	44	3.4	2.5	9.0
29	3.9	3.0	3.8	2.6	---	6.4	35	26	45	4.8	2.7	9.3
30	3.4	3.1	3.8	2.5	---	5.4	30	28	42	4.7	2.6	8.6
31	3.0	---	3.8	2.5	---	4.4	---	25	---	2.9	2.4	---
TOTAL	168.9	93.9	118.0	100.0	136.6	191.5	588.1	919	1074	441.95	59.02	115.4
MEAN	5.45	3.13	3.81	3.23	4.88	6.18	19.6	29.6	35.8	14.3	1.90	3.85
MAX	14	3.9	5.2	4.0	17	11	47	75	56	58	5.9	9.3
MIN	1.4	2.6	3.2	2.5	1.7	3.5	4.8	16	24	.46	.00	2.0
AC-FT	335	186	234	198	271	380	1170	1820	2130	877	117	229

CAL YR 1981 TOTAL 2691.55 MEAN 7.37 MAX 123 MIN .14 AC-FT 5340
WTR YR 1982 TOTAL 4006.37 MEAN 11.0 MAX 75 MIN .00 AC-FT 7950

09259050 LITTLE SNAKE RIVER BELOW BAGGS, WY

LOCATION.--Lat 41°01'43", long 107°41'14", in SE¼NW¼NW¼ sec.7, T.12 N., R.92 W., Carbon County, Hydrologic Unit 14050003, 0.8 mi (1.3 km) downstream from Ledford Slough, 1.5 mi (2.4 km) southwest of Baggs, and 3.5 mi (5.6 km) downstream from bridge on State Highway 789 in Baggs.

PERIOD OF RECORD.--October 1980 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT 21...	1000	75	400	353	8.0	5.5	100	10.2	88	119	32
NOV 18...	1500	60	385	--	7.6	4.0	15	10.8	K11	--	--
JAN 07...	1415	68	340	--	7.7	.0	7.0	11.7	54	--	--
FEB 18...	1400	174	325	--	8.1	.0	25	10.2	130	--	--
APR 01...	1100	311	500	490	8.1	3.0	140	11.3	K16	186	48
MAY 18...	1130	2600	165	183	7.8	7.5	230	9.2	170	67	20
JUN 14...	1500	2690	120	--	7.2	10.5	25	10.5	140	--	--
JUL 28...	1500	227	187	199	7.9	21.0	32	7.5	440	83	24
SEP 09...	1530	4.5	600	--	8.4	25.0	36	10.8	76	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	CARBONATE FET-FLD (MG/L AS CO3)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
OCT 21...	9.5	21	.9	2.9	150	0	120	40	5.1	.2	15
NOV 18...	--	--	--	--	--	--	--	--	--	--	--
JAN 07...	--	--	--	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	--	--	--	--	--	--
APR 01...	16	30	1.0	3.2	--	--	155	87	4.4	.5	17
MAY 18...	4.2	8.0	.4	1.0	--	--	72	13	1.7	.2	14
JUN 14...	--	--	--	--	--	--	--	--	--	--	--
JUL 28...	5.6	10	.5	2.5	--	--	84	17	1.6	.2	12
SEP 09...	--	--	--	--	--	--	--	--	--	--	--

K BASED ON NON-IDEAL COLONY COUNT.

09259050 LITTLE SNAKE RIVER BELOW BAGGS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT 21...	200	.27	40.5	<.09	.38	<.060	--	.68	--	.460
NOV 18...	--	--	--	<.10	--	.140	.26	.40	--	.030
JAN 07...	--	--	--	<.09	--	.130	.48	.61	--	.030
FEB 18...	--	--	--	<.10	--	.280	1.0	1.30	--	.140
APR 01...	300	.41	252	<.10	.00	.200	1.1	1.30	--	.400
MAY 18...	100	.14	702	<.10	.20	.210	2.0	2.20	--	.610
JUN 14...	--	--	--	--	--	--	--	--	--	--
JUL 28...	120	.17	73.5	.14	.00	<.060	--	1.00	1.1	.040
SEP 09...	--	--	--	<.10	--	.190	3.3	3.50	--	.140

DATE	TIME	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
MAY 18...	1130	<.01	<.01	<.01	<.01
JUL 28...	1500	.03	<.01	<.01	<.01
SEP 09...	1530	.01	<.01	<.01	<.01

09260000 LITTLE SNAKE RIVER NEAR LILY, CO

LOCATION.--Lat 40°32'50", long 108°25'25", in NW¼NE¼ sec.20, T.7 N., R.98 W., Moffat County, Hydrologic Unit 14050003, on left bank 170 ft (52 m) downstream from highway bridge, 6.0 mi (9.7 km) north of Lily, and 10 mi (16 km) upstream from mouth.

DRAINAGE AREA.--3,730 mi^2 (9,660 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to August 1904 (published as "near Maybell"), October 1921 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1713: 1959.

GAGE.--Water-stage recorder. Altitude of gage is 5,685 ft (1,733 m), from river-profile map. June 9 to Aug. 14, 1904, nonrecording gage, and May 5, 1922, to Nov. 30, 1935, water-stage recorder, at site 300 ft (91 m) upstream at different datums.

REMARKS.--Records fair except those for winter period, which are poor. Diversions for irrigation of about 21,000 acres (85.0 km^2) above station.

AVERAGE DISCHARGE.--61 years, 572 ft^3/s (16.20 m^3/s), 414,400 acre-ft/yr (511 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,200 ft^3/s (402 m^3/s) May 27, 1926, gage height, 10.5 ft (3.20 m), site and datum then in use, from rating curve extended above 3,600 ft^3/s (102 m^3/s); maximum gage height, 11.1 ft (3.38 m), Feb. 13, 1962, from floodmark (backwater from ice); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,500 ft^3/s (99 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 6	1600	* 5,540	157	6.15	1.875	June 27	1600	4,220	120	5.28	1.609
May 25	1300	4,040	114	5.14	1.567						

Minimum daily discharge, 0.06 ft^3/s (0.002 m^3/s) Oct. 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	229	105	128	128	150	305	2380	3620	2400	279	29
2	.06	250	115	128	128	163	320	2730	3410	2380	208	27
3	.06	203	120	128	128	180	320	3410	3370	2390	340	12
4	118	185	120	128	128	300	303	4140	3200	2000	293	11
5	144	180	125	128	128	260	289	4870	3050	1790	280	51
6	261	175	140	128	128	230	302	5440	3000	1610	261	67
7	152	170	150	128	128	210	312	3890	3140	1490	238	18
8	215	165	170	128	128	200	301	3250	3000	1430	207	21
9	140	158	167	128	128	230	290	2880	2910	1230	225	19
10	94	158	170	128	128	262	280	3030	2770	1140	183	30
11	170	155	170	128	128	257	270	3400	2660	1100	150	40
12	433	150	170	128	128	259	269	3110	2690	1050	205	50
13	450	135	170	128	128	250	277	2750	2800	960	240	70
14	500	130	170	128	128	380	596	2630	2960	880	152	90
15	500	130	173	128	128	365	769	2490	3220	778	133	120
16	587	140	170	128	128	345	850	2320	3330	749	120	160
17	1080	142	170	128	128	399	950	2240	3210	695	106	332
18	665	155	160	128	128	407	1090	2310	3170	612	101	230
19	385	155	160	128	128	400	1010	2460	3320	514	94	203
20	301	161	150	128	128	385	900	2760	3250	470	82	166
21	246	150	150	128	128	360	800	3060	3020	438	67	138
22	220	152	155	128	128	320	700	3010	2840	397	87	111
23	200	123	128	128	128	320	707	3070	2780	339	70	95
24	180	140	128	128	128	310	924	3340	3060	315	59	88
25	160	167	128	128	130	300	1190	3630	3060	298	42	83
26	155	150	128	128	135	290	1780	3400	2890	274	28	75
27	158	135	128	128	137	278	2060	3140	3490	302	24	182
28	161	120	128	128	145	264	2130	3470	3000	316	22	304
29	161	103	128	128	---	266	2130	3720	2630	504	52	503
30	185	100	128	128	---	280	2580	3560	2540	565	45	313
31	188	---	128	128	---	295	---	3480	---	299	48	---
TOTAL	8209.18	4666	4502	3968	3619	8915	25004	99370	91390	29715	4441	3638
MEAN	265	156	145	128	129	288	833	3205	3046	959	143	121
MAX	1080	250	173	128	145	407	2580	5440	3620	2400	340	503
MIN	.06	100	105	128	128	150	269	2240	2540	274	22	11
AC-FT	16280	9260	8930	7870	7180	17680	49600	197100	181300	58940	8810	7220

CAL YR 1981 TOTAL 132072.45 MEAN 362 MAX 3690 MIN .06 AC-FT 262000
WTR YR 1982 TOTAL 287437.18 MEAN 787 MAX 5440 MIN .06 AC-FT 570100

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued
(National Stream-Quality Accounting Network Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1969 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1975 to current year.
WATER TEMPERATURES: July 1975 to current year.

INSTRUMENTATION:--Water-quality monitor since July 1975.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,020 micromhos Oct. 11, 1977; minimum, 122 micromhos June 20, 1978.
WATER TEMPERATURES: Maximum, 32.0°C Aug. 6, 1981; minimum, freezing point on many days during winter months each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, not determined; minimum, not determined.
WATER TEMPERATURES: Maximum, 31.0°C July 26; minimum, 0.0°C on many days during November to February.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (FTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV											
19...	1100	153	560	547	8.1	1.0	120	11.5	--	--	190
JAN											
13...	1200	128	620	709	7.7	.0	30	9.4	<4	900	200
MAR											
18...	1030	415	608	620	8.0	5.5	680	10.4	<20	520	200
MAY											
11...	1310	3800	175	179	7.5	10.0	240	9.0	K44	780	72
JUL											
19...	1030	529	295	302	8.1	20.0	31	7.5	--	--	100
SEP											
14...	1445	317	790	760	8.4	14.0	600	8.3	3200	8700	170

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV										
19...	52	14	61	2.1	1.6	160	110	21	.3	14
JAN										
13...	56	15	64	2.1	1.7	190	110	21	.0	19
MAR										
18...	50	18	65	2.2	1.8	160	150	14	.3	13
MAY										
11...	21	4.7	8.0	.4	.7	68	20	1.9	.2	13
JUL										
19...	29	7.1	26	1.1	2.3	104	45	5.8	.2	13
SEP										
14...	50	11	110	3.9	3.3	169	190	33	.4	7.8

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV										
19...	371	370	.50	153	.05	.180	1.20	.100	.020	.010
JAN										
13...	395	401	.54	137	<.16	.110	.55	.020	.020	<.010
MAR										
18...	395	408	.54	443	<.10	.090	.49	.580	.050	.030
MAY										
11...	116	110	.16	1190	.21	.110	1.80	.470	.110	.070
JUL										
19...	181	191	.25	259	<.10	<.060	.70	.090	.010	.020
SEP										
14...	540	507	.73	462	.23	.070	5.40	.080	.060	.010

K BASED ON NON-IDEAL COLONY COUNT.

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUN					
06...	1625	3120	2390	20100	--
08...	1920	2640	845	6020	--
13...	1150	2700	1160	8460	--
17...	2000	3260	736	6480	--
20...	1810	3390	934	8550	--
24...	1930	3340	934	8420	--
27...	1550	4220	3550	40400	24
JUL					
01...	2000	2470	809	5400	--
05...	1620	1770	2050	9800	--
08...	1740	1400	993	3750	--
11...	1015	1060	541	1550	--
19...	1030	529	716	1020	6
25...	1350	305	1420	1170	--
AUG					
01...	0900	410	2860	3170	68
04...	2020	297	1390	1120	--
09...	1950	219	4980	2950	--
14...	1820	150	12300	4980	--
22...	1040	56	219	33	--
29...	1105	49	393	52	--
SEP					
05...	1405	18	69	3.4	--
12...	1300	64	2550	441	--
18...	1430	212	15000	8590	--
26...	1155	70	377	71	69

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
MAY								
11...	1310	16	19	27	53	76	90	96

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	532			---	---	188	136	143	381	---
2	1440	---	---			---	---	199	138	145	365	---
3	1430	---	---			---	---	200	136	147	448	---
4	---	---	---			---	---	185	140	152	377	---
5	---	---	---			---	---	171	142	160	441	---
6	---	---	---			---	---	177	150	156	447	---
7	---	---	554			---	---	---	145	169	463	---
8	---	---	545			---	---	---	140	185	476	---
9	---	---	530			549	---	---	142	193	---	---
10	---	---	519			530	---	---	140	213	---	---
11	---	---	527			560	596	---	150	222	---	---
12	---	---	532			568	590	---	149	225	---	---
13	---	---	490			579	600	---	150	233	---	---
14	---	---	---			640	599	---	150	249	872	---
15	---	---	---			633	493	---	147	261	727	---
16	---	---	---			641	417	---	141	272	672	---
17	---	---	---			607	396	---	142	282	664	---
18	---	---	---			596	343	---	135	283	679	734
19	---	---	---			---	342	193	140	298	674	---
20	---	---	---			---	337	182	134	300	684	---
21	---	---	---			---	297	166	137	316	674	---
22	---	545	552			---	270	164	137	334	679	---
23	---	562	614			---	259	172	138	350	---	---
24	---	571	649			---	287	160	140	391	---	---
25	---	---	600			---	338	153	130	406	---	---
26	---	---	639			---	287	145	129	415	---	531
27	---	---	607			---	252	149	137	533	---	337
28	---	---	582			---	228	151	134	---	---	262
29	---	593	---			---	202	132	143	---	---	479
30	---	541	---			---	195	128	145	---	---	374
31	---	---	---			---	---	132	---	556	---	---
MEAN									141	271		

GREEN RIVER BASIN

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
NOV										
19...	3	3	100	45	< 1	< 1	10	<10	2	< 3
MAR										
18...	5	2	500	52	1	< 1	40	< 10	8	< 1
MAY										
11...	6	1	100	21	< 1	< 3	10	<10	6	< 1
SEP										
14...	12	2	1200	70	< 1	< 1	130	< 10	38	< 1

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
NOV									
19...	14	6	6500	88	5	4	140	7	.1
MAR									
18...	50	4	30000	6	17	< 1	70	3	.1
MAY									
11...	19	4	12000	39	10	2	300	< 3	.1
SEP									
14...	130	2	85000	< 3	70	< 1	2000	4	.1

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV									
19...	<.1	6	5	< 1	< 1	< 1	< 1	80	47
MAR									
18...	.1	29	< 1	1	1	< 1	< 1	140	< 4
MAY									
11...	<.1	15	2	1	< 1	< 1	< 1	50	< 12
SEP									
14...	<.1	100	1	3	1	< 1	< 1	360	5

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
03...	1551	.06	405	.07	--
15...	1035	275	11650	8650	--
18...	1020	573	17000	26300	--
25...	1435	170	1310	601	--
NOV					
01...	1515	261	4430	3120	--
08...	1140	173	1200	561	--
15...	1055	130	660	232	--
19...	1045	--	1250	--	23
19...	1100	153	1250	516	23
22...	1240	164	575	255	--
29...	1115	105	460	130	--
DEC					
06...	1000	185	323	161	--
13...	0800	233	291	183	--
20...	1410	170	1205	553	--
JAN					
10...	1004	128	81	28	--
17...	1245	128	155	54	--
24...	1405	128	94	32	--
31...	1200	128	52	18	--
FEB					
07...	1450	128	97	34	--
14...	0745	128	67	23	--

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
FEB					
21...	0730	128	639	221	--
28...	1040	145	4790	1880	--
MAR					
07...	0920	210	14340	8130	--
14...	1155	426	3160	3640	--
18...	1030	415	2350	2630	--
APR					
03...	1207	348	2080	1950	65
17...	0950	1110	5240	15700	79
28...	1130	2120	4600	26300	--
28...	1805	2200	3780	22500	--
MAY					
02...	1350	3120	4110	34600	--
06...	1825	5450	3460	50900	--
09...	1720	2900	1660	13000	--
11...	1310	3800	2230	22900	--
13...	1715	2810	1960	14900	--
16...	0800	2290	1590	9830	--
23...	1805	3360	1550	14100	54
26...	1940	3480	1660	15600	--
30...	1500	3780	2620	26700	32
JUN					
02...	2000	3400	4480	41100	--

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.5	6.0	6.5	.5	.0	.0	.0	.0	.0	.0	3.5	1.0
2	17.5	5.5	6.5	2.0	.0	.0	.0	.0	.0	.0	---	---
3	17.5	9.0	5.5	2.5	.0	.0	.0	.0	.0	.0	---	---
4	10.5	7.5	6.5	4.5	.0	.0	.0	.0	.0	.0	---	---
5	14.0	7.5	7.0	2.5	.0	.0	.0	.0	.0	.0	---	---
6	14.5	7.5	7.0	2.0	.0	.0	.0	.0	.0	.0	---	---
7	13.5	8.0	7.0	5.5	.0	.0	.0	.0	.0	.0	---	---
8	10.0	8.5	8.5	5.5	.0	.0	.0	.0	.0	.0	---	---
9	13.5	6.0	6.5	3.0	.0	.0	.0	.0	.0	.0	8.0	3.5
10	14.0	6.5	6.0	4.0	.5	.0	.0	.0	.0	.0	5.0	1.5
11	10.0	5.0	5.0	4.5	.5	.0	.0	.0	.0	.0	8.0	2.5
12	9.5	3.5	6.0	1.5	.0	.0	.0	.0	.0	.0	9.5	1.5
13	10.0	7.0	6.5	2.5	1.0	.0	.0	.0	.0	.0	10.0	1.0
14	11.0	7.0	---	---	1.5	.0	.0	.0	.0	.0	7.5	2.5
15	8.0	6.0	---	---	3.5	.0	.0	.0	.0	.0	7.0	4.0
16	7.0	6.0	---	---	.5	.0	.0	.0	.0	.0	7.5	3.5
17	7.5	5.5	---	---	.5	.0	.0	.0	.0	.0	7.5	2.5
18	9.5	4.5	---	---	.5	.0	.0	.0	.0	.0	8.5	3.0
19	10.0	4.0	3.5	.0	.5	.0	.0	.0	.0	.0	---	---
20	10.0	4.0	1.0	.0	2.0	.0	.0	.0	.0	.0	---	---
21	10.5	3.5	2.5	.0	1.5	.0	.0	.0	.0	.0	---	---
22	9.5	3.5	5.0	.0	.5	.0	.0	.0	.0	.0	---	---
23	8.5	2.5	5.5	1.5	.0	.0	.0	.0	.0	.0	---	---
24	6.0	4.5	6.0	.0	.0	.0	.0	.0	.0	.0	---	---
25	8.5	2.5	2.0	.0	.0	.0	.0	.0	.5	.0	---	---
26	9.5	2.5	.0	.0	.0	.0	.0	.0	1.0	.0	---	---
27	10.5	4.0	.5	.0	.0	.0	.0	.0	3.0	.0	---	---
28	9.0	3.5	.0	.0	.0	.0	.0	.0	5.5	.0	---	---
29	7.0	4.5	.0	.0	.0	.0	.0	.0	---	---	---	---
30	5.0	2.0	.0	.0	.0	.0	.0	.0	---	---	---	---
31	4.5	.5	---	---	.0	.0	.0	.0	---	---	---	---
MONTH	22.5	.5	8.5	.0	3.5	.0	.0	.0	5.5	.0		
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	13.5	5.5	14.5	12.0	20.0	15.5	26.5	18.0	28.0	12.0
2	---	---	13.5	10.5	15.0	11.0	20.5	15.0	25.5	18.0	29.5	11.0
3	---	---	13.0	11.5	16.0	12.5	21.0	16.0	23.0	17.0	25.5	11.5
4	---	---	13.5	10.0	15.5	12.0	20.5	16.0	26.0	16.0	26.0	12.0
5	---	---	11.0	5.5	15.0	11.5	18.5	15.5	26.5	16.0	25.0	12.0
6	---	---	9.5	5.5	14.5	10.0	20.5	13.0	30.0	17.0	24.0	10.0
7	---	---	10.5	5.5	15.5	11.0	22.0	15.0	29.0	17.5	19.5	13.0
8	---	---	10.5	8.5	16.0	11.5	23.0	17.0	26.5	16.5	23.5	12.5
9	---	---	11.0	6.0	16.0	11.0	22.5	17.5	25.5	17.0	24.5	12.0
10	---	---	12.0	8.0	16.0	12.0	24.0	15.5	25.5	15.5	20.0	13.0
11	11.5	3.5	11.0	9.5	19.0	13.0	23.5	16.0	24.0	16.0	14.0	11.5
12	11.5	6.0	9.5	7.5	17.5	14.5	24.5	17.0	26.5	14.5	18.0	7.5
13	16.0	5.5	9.0	6.5	18.0	14.5	23.0	17.5	---	---	11.5	8.5
14	14.0	6.5	11.0	7.5	17.0	14.5	24.5	16.5	25.0	14.0	15.0	7.0
15	13.5	7.0	12.5	8.0	17.0	14.0	24.0	17.0	26.0	16.0	20.0	9.0
16	11.0	6.0	12.5	9.5	18.0	13.5	23.0	16.0	26.0	16.5	19.0	11.0
17	11.0	4.5	16.0	10.0	18.5	14.5	23.5	16.0	26.0	16.0	19.0	12.5
18	11.0	5.5	15.5	10.5	17.5	14.5	25.0	16.0	27.0	15.5	21.0	11.0
19	6.5	3.0	14.0	11.5	18.0	13.5	27.5	16.5	29.0	16.0	20.5	13.0
20	5.5	1.0	15.0	11.5	19.5	14.5	27.5	18.0	29.0	16.5	21.5	12.5
21	8.0	.0	15.5	10.5	19.0	15.5	30.0	18.0	30.5	17.0	21.5	12.0
22	12.5	2.5	16.0	12.0	18.5	15.0	27.5	19.0	28.0	15.5	21.0	12.0
23	13.0	6.0	16.5	12.5	19.0	15.0	28.0	19.0	27.5	14.5	22.0	11.5
24	13.5	8.0	15.5	10.5	20.0	15.5	28.5	19.0	29.5	14.0	22.0	10.5
25	12.5	8.5	14.5	11.0	18.5	16.0	29.0	19.0	22.5	14.0	15.0	13.0
26	12.0	9.0	15.5	10.5	19.0	14.5	31.0	19.5	25.5	12.5	20.0	12.5
27	11.0	5.5	14.5	12.0	20.0	15.5	28.0	19.5	28.0	14.0	13.5	8.5
28	12.5	7.5	15.0	11.0	20.5	16.0	23.0	16.0	24.5	14.5	11.0	7.5
29	12.0	8.5	14.0	10.5	20.5	16.5	26.0	18.0	26.5	13.5	9.0	6.5
30	12.5	8.0	13.0	10.5	20.5	16.5	26.0	17.5	23.0	14.5	8.0	6.5
31	---	---	14.0	9.5	---	---	27.0	17.5	24.5	13.5	---	---
MONTH			16.5	5.5	20.5	10.0	31.0	13.0	30.5	12.5	29.5	6.5
YEAR	31.0	.0										

09260050 YAMPA RIVER AT DEERLODGE PARK, CO

LOCATION.--Lat 40°27'06", long 108°31'28", in SE¼SW¼ sec.21, T.6 N., R.99 W., Moffat County, Hydrologic Unit 1405002, in Dinosaur National Monument, on left bank at Deerlodge Park, 1,250 ft (381 m) upstream from Disappointment Draw, and 5.5 mi (8.9 km) downstream from Little Snake River.

DRAINAGE AREA.--7,660 (19,840 km^2) approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1975, January 1978 (discharge measurements only), April 1982 to September 1982.

GAGE.--Water-stage recorder. Altitude of gage is 5,600 ft (1,707 m), from topographic map.

REMARKS.--Records good. Natural flow of stream affected by transbasin diversions, numerous storage reservoirs, and diversions for irrigation of about 86,800 acres (351 km^2) above station.

EXTREMES FOR CURRENT YEAR.--For period April to September: Peak discharges above base of 10,000 ft^3/s (283 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 7	0200	* 16,500	467	10.43	3.179	June 19	2000	12,000	340	8.81	2.685
May 29	1800	12,600	357	9.42	2.871						

Minimum daily discharge, 179 ft^3/s (5.07 m^3/s) Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							1500	7370	10900	8900	2960	488
2							1360	8140	10300	8700	2470	454
3							1480	10100	9760	8730	2240	357
4							1470	12100	9350	7660	1970	259
5							1270	15100	8840	7000	1960	290
6							1400	15000	9010	6530	1870	368
7							1400	13200	9700	6140	1710	207
8							1400	10500	9560	6230	1520	197
9							1300	9040	9280	5510	1470	194
10							1200	9010	9120	5280	1370	179
11							1100	9670	8820	5180	1320	217
12							1200	9640	8810	5030	1310	336
13							2000	8790	9020	4780	1420	350
14							3300	8540	9490	4630	1220	445
15							4000	7960	9990	4320	1110	583
16							4700	6890	10000	4220	1180	825
17							4400	6320	9660	4170	1160	943
18							4100	6540	9930	3890	967	911
19							4400	6960	11100	3750	810	784
20							4100	7710	11300	3530	793	575
21							3300	8480	10400	3330	740	467
22							2900	8380	9930	3030	696	377
23							3100	8400	9570	2730	670	360
24							4300	9430	9860	2620	644	359
25							5700	11000	9590	2610	564	317
26							6800	10700	9490	2580	507	276
27							7380	9910	9960	2430	476	418
28							7380	10900	9400	4490	461	589
29							7210	12000	8910	2730	430	1540
30							7780	11800	9150	2800	436	940
31							---	11300	---	2800	458	---
TOTAL							102930	300880	290200	146330	36912	14605
MEAN							3431	9706	9673	4720	1191	487
MAX							7780	15100	11300	8900	2960	1540
MIN							1100	6320	8810	2430	430	179
AC-FT							204200	596800	575600	290200	73210	28970

09260050 YAMPA RIVER AT DEERLODGE PARK, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1975 to September 1982 (discontinued). August 1976 published in the 1977 report as "at Deerlodge Park." November 1977 to September 1981 published as "09260025, below Little Snake River."

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1977 to September 1982 (discontinued).
WATER TEMPERATURES: November 1977 to September 1982 (discontinued).

INSTRUMENTATION.--Water-quality monitor since November 1977.

REMARKS.--Daily maximum and minimum specific conductance available in district office. August 1975 to August 1976, water-quality data collected at present site. November 1977 to April 1980, all water-quality data collected approximately 3.5 mi (5.6 km) upstream. May 1980 to April 21, 1981, all water-quality data collected approximately 1 mi (1.6 km) upstream. April 22, 1981 to September 30, 1982, water-quality data collected at present site. All sites are considered equivalent.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,040 micromhos Oct. 4, 1979; minimum, 64 micromhos July 13, 1978.
WATER TEMPERATURES: Maximum, 29.5°C Aug. 2, 1980; minimum 0.0°C on many days during winter period most years.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, not determined; minimum, not determined.
WATER TEMPERATURES: Maximum, not determined; minimum, not determined.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
APR							
01...	1300	1570	457	1940	--	--	--
27...	1600	7590	2710	55500	23	31	45
27...	1740	7590	3340	68400	--	--	--
MAY							
12...	1540	9410	1840	46700	7	9	15
13...	1525	8820	974	23200	13	15	23
13...	1630	8820	966	23000	--	--	--
24...	1530	9700	994	26000	17	21	34
24...	1610	9780	1040	27500	--	--	--
25...	1315	11400	1020	31400	16	23	37
25...	1345	11500	1010	31400	--	--	--
JUN							
08...	1530	9410	1030	26200	5	7	10
08...	1600	9410	1060	26900	--	--	--
24...	1440	10000	330	8910	13	16	24
24...	1540	10000	351	9480	--	--	--
25...	1300	9600	939	24300	5	6	9
JUL							
07...	1550	6250	283	4780	15	17	22
08...	1500	6240	1300	21900	3	3	4
08...	1630	6240	1090	18400	--	--	--
29...	1420	2350	706	4480	43	53	71

DATE	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
APR							
01...	--	--	--	--	--	--	81
27...	65	74	85	94	100	--	--
27...	--	--	--	--	--	--	51
MAY							
12...	23	31	48	80	98	100	--
13...	39	52	68	85	100	--	--
13...	--	--	--	--	--	--	18
24...	59	74	92	100	--	--	--
24...	--	--	--	--	--	--	54
25...	63	80	96	100	--	--	--
25...	--	--	--	--	--	--	56
JUN							
08...	20	27	43	84	100	--	--
08...	--	--	--	--	--	--	20
24...	48	65	76	97	100	--	--
24...	--	--	--	--	--	--	38
25...	17	23	28	80	100	--	--
JUL							
07...	45	62	80	97	100	--	--
08...	8	9	12	19	95	100	--
08...	--	--	--	--	--	--	13
29...	84	90	94	97	100	100	--

09260050 YAMPA RIVER AT DEERLODGE PARK, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	---	289	165	122	228	453
2						---	746	263	169	121	236	448
3						---	732	238	169	123	263	461
4						733	741	234	169	125	271	456
5						785	789	217	168	128	273	461
6						754	824	214	168	129	275	---
7						732	791	213	158	134	281	---
8						747	768	216	150	142	291	---
9						726	717	212	153	159	308	---
10						709	734	201	147	165	335	---
11						717	763	201	150	162	350	---
12						735	767	208	147	167	329	---
13						738	778	252	147	170	353	---
14						756	771	263	142	170	389	492
15						805	642	257	141	169	378	495
16						810	564	260	144	172	359	---
17						837	458	258	148	179	375	---
18						844	427	252	142	182	395	495
19						851	447	241	136	186	408	---
20						843	427	226	136	186	416	---
21						875	400	222	136	191	415	---
22						811	414	223	133	200	405	---
23						794	443	213	135	208	406	---
24						738	443	207	134	213	376	---
25						---	399	196	133	208	379	---
26						---	353	185	135	211	421	---
27						---	303	185	135	215	462	431
28						---	306	186	136	270	441	420
29						---	314	171	136	235	442	510
30						---	290	163	125	230	433	527
31						---	---	162	---	237	441	---
MEAN							571	220	146	178	359	

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	12.5	10.5	13.5	11.5	18.0	16.0	25.5	21.0	27.0	17.5
2	---	---	12.5	11.0	14.0	11.5	18.5	15.5	25.0	21.0	27.5	17.5
3	---	---	12.5	10.5	14.5	12.0	18.5	15.5	24.0	20.5	26.0	17.0
4	---	---	10.5	9.0	15.0	12.0	18.5	16.0	25.0	20.0	25.5	17.0
5	8.5	5.0	9.0	7.0	14.5	12.5	17.5	16.5	26.5	20.5	24.0	17.5
6	9.0	4.0	9.0	7.5	13.5	11.0	18.0	15.0	27.5	21.5	23.0	14.5
7	7.5	3.0	10.0	8.0	14.0	11.5	18.5	16.0	28.5	22.0	21.5	16.0
8	7.5	1.5	10.0	9.0	14.0	11.5	19.5	16.5	26.5	22.0	23.0	15.0
9	8.0	1.0	11.0	9.0	14.5	11.0	20.0	17.0	26.5	21.0	24.5	15.0
10	9.5	1.5	10.5	9.5	14.5	11.5	20.5	17.0	26.0	20.0	22.0	16.0
11	12.0	5.5	9.5	8.0	15.5	12.0	20.5	18.0	24.5	20.0	17.0	14.5
12	12.5	6.5	8.5	7.5	15.5	13.0	21.0	18.0	25.5	19.0	19.5	11.5
13	14.0	6.5	9.5	7.5	15.5	13.5	20.5	18.5	21.5	19.5	13.5	11.5
14	13.0	8.5	10.5	7.5	14.5	12.5	21.5	18.0	25.0	18.0	15.5	10.0
15	12.5	8.0	12.0	9.0	14.5	13.0	22.0	18.0	25.0	20.0	18.0	11.5
16	10.0	6.5	14.0	10.0	15.5	12.0	21.0	18.0	26.0	21.0	19.0	10.0
17	9.0	6.0	14.0	11.5	16.5	13.5	21.5	18.0	26.5	21.0	19.5	14.5
18	9.5	5.5	13.0	11.5	16.5	14.5	22.0	18.5	27.0	21.5	20.5	14.0
19	8.0	5.0	13.0	11.0	16.5	13.5	23.5	18.5	28.5	21.0	19.5	15.5
20	7.0	3.5	13.5	11.0	16.5	13.5	23.5	20.0	27.5	21.5	21.5	15.0
21	8.0	1.5	14.0	11.0	16.5	14.0	25.0	20.0	28.0	22.0	22.5	15.5
22	10.0	4.0	15.0	12.0	17.0	14.5	25.5	21.0	28.0	21.0	22.0	15.5
23	12.5	6.0	14.0	13.0	16.5	14.0	26.0	22.5	27.0	20.0	23.5	15.5
24	12.5	8.5	14.0	13.0	16.0	14.0	26.0	21.5	27.5	20.0	22.0	14.0
25	12.5	9.5	13.5	11.5	16.0	14.5	26.5	21.5	24.5	20.0	17.5	16.0
26	10.5	9.5	13.5	11.0	16.5	14.0	27.5	22.0	25.0	18.0	21.0	15.5
27	11.0	8.0	13.5	11.5	17.5	14.5	26.5	22.0	26.5	18.5	17.0	13.0
28	10.5	8.5	14.0	12.0	18.5	15.0	24.0	21.5	24.5	19.0	13.0	9.0
29	11.0	8.5	13.5	11.5	18.5	16.0	24.0	20.5	25.5	18.5	10.0	7.5
30	12.0	9.5	12.5	11.5	18.0	16.0	24.0	20.0	26.5	18.5	13.0	9.0
31	---	---	13.0	10.5	---	---	25.0	21.0	24.5	18.5	---	---
MONTH	14.0	1.0	15.0	7.0	18.5	11.0	27.5	15.0	28.5	18.0	27.5	7.5

09302450 LOST CREEK NEAR BUFORD, CO

LOCATION.--Lat 40°03'01", long 107°28'06", in SE$\frac{1}{4}$SE$\frac{1}{4}$ sec.15, T.1 N., R.90 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 15 ft (5 m) downstream from highway bridge, 540 ft (165 m) upstream from mouth, 0.5 mi (0.8 km) downstream from Long Park Creek, and 9 mi (14 km) northeast of Buford.

DRAINAGE AREA.--21.5 mi^2 (55.7 km^2).

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,560 ft (2,304 m), from topographic map. Oct. 1, 1973, to Sept. 30, 1975, at site 150 ft (46 m) upstream at present datum.

REMARKS.--Records good except periods Nov. 25 to March 22 and June 18 to Sept. 30, (backwater from beaver dam), which are fair. No diversion above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--18 years, 21.6 ft^3/s (0.612 m^3/s), 15,650 acre-ft/yr (19.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 944 ft^3/s (26.7 m^3/s) May 9, 1974, gage height, 7.53 ft (2.295 m), from rating curve extended above 260 ft^3/s (7.4 m^3/s); minimum daily, 0.30 ft^3/s (0.008 m^3/s) Jan. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft^3/s (4.2 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 3	2100	* 439	12.4	3.83	1.167	May 23	1600	432	12.2	3.82	1.164

Minimum daily discharge, 1.2 ft^3/s (0.034 m^3/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	2.7	2.7	4.2	5.2	4.1	4.8	201	140	24	3.3	2.1
2	1.2	2.6	2.6	4.1	5.3	4.1	4.8	251	129	17	3.5	2.0
3	2.4	2.9	2.5	4.5	5.3	4.1	4.7	304	123	14	5.0	2.3
4	4.4	2.9	2.8	4.9	5.4	3.9	5.0	343	120	11	3.8	2.8
5	3.8	2.9	2.8	5.1	6.0	3.8	5.6	233	116	10	3.3	3.3
6	2.6	2.9	2.8	5.1	8.0	3.9	5.4	181	103	13	3.0	2.7
7	2.3	3.2	2.8	5.6	9.8	3.7	5.2	177	93	9.2	3.0	2.9
8	3.1	3.0	2.9	7.3	9.8	3.7	5.8	233	88	8.0	3.2	2.7
9	3.5	2.7	2.8	7.6	8.6	3.6	5.3	239	80	9.2	4.5	2.9
10	2.5	2.5	3.0	7.7	7.2	3.7	5.5	213	72	8.0	3.7	5.0
11	2.4	2.4	3.1	7.6	5.9	3.7	7.3	179	70	7.1	3.7	5.3
12	2.8	2.4	3.0	6.8	5.2	4.1	12	158	67	7.1	3.8	8.6
13	2.6	2.4	3.0	6.0	4.6	4.1	14	131	62	5.9	3.8	8.8
14	2.6	2.5	3.1	5.7	4.4	4.2	18	120	58	5.5	4.3	10
15	2.4	2.4	3.2	5.4	4.3	4.2	25	110	55	5.7	3.6	10
16	3.5	2.4	3.1	5.3	4.2	4.0	32	125	53	4.7	3.3	8.9
17	3.1	2.3	3.2	5.4	4.1	3.8	52	172	59	4.5	3.3	5.9
18	2.7	2.4	4.0	5.0	4.1	3.7	56	200	52	4.4	3.1	4.8
19	2.7	2.3	3.9	5.2	4.0	3.7	61	228	46	4.0	3.2	4.2
20	2.6	2.4	3.8	5.1	4.0	3.6	58	219	40	4.1	2.7	3.8
21	2.4	2.6	3.7	5.2	4.2	3.6	48	236	39	4.1	4.0	3.4
22	2.2	2.5	3.7	4.9	4.5	3.5	46	261	36	3.9	4.3	3.5
23	2.0	2.6	3.9	5.2	4.7	3.9	57	304	32	3.7	2.3	3.4
24	2.3	3.0	5.0	5.4	4.5	3.7	75	263	26	4.2	2.2	3.6
25	2.1	2.5	5.1	5.2	4.2	3.9	109	234	28	4.2	2.5	6.5
26	2.3	2.2	4.7	5.1	4.4	4.3	120	262	26	4.1	3.8	6.1
27	2.5	2.5	5.0	5.2	4.2	4.3	106	259	24	8.1	2.7	7.6
28	2.4	2.9	4.6	5.3	4.0	4.7	113	227	23	10	2.4	6.5
29	2.6	2.8	4.4	5.4	---	4.9	135	187	21	7.9	2.6	6.0
30	2.6	2.7	4.4	5.4	---	4.6	139	158	19	5.2	2.3	14
31	2.6	---	4.1	5.5	---	5.2	---	147	---	4.1	2.2	---
TOTAL	80.4	78.5	109.7	171.4	150.1	124.3	1335.4	6555	1900	235.9	102.4	159.6
MEAN	2.59	2.62	3.54	5.53	5.36	4.01	44.5	211	63.3	7.61	3.30	5.32
MAX	4.4	3.2	5.1	7.7	9.8	5.2	139	343	140	24	5.0	14
MIN	1.2	2.2	2.5	4.1	4.0	3.5	4.7	110	19	3.7	2.2	2.0
AC-FT	159	156	218	340	298	247	2650	13000	3770	468	203	317

CAL YR 1981 TOTAL 4432.60 MEAN 12.1 MAX 112 MIN .70 AC-FT 8790
WTR YR 1982 TOTAL 11002.70 MEAN 30.1 MAX 343 MIN 1.2 AC-FT 21820

09302500 MARVINE CREEK NEAR BUFORD, CO

LOCATION.--Lat 40°02'18", long 107°29'15", in NE¼SE¼ sec.21, T.1 N., R.90 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank 166 ft (50 m) upstream from county road bridge, 1,800 ft (550 m) upstream from mouth, and 8 mi (13 km) northeast of Buford.

DRAINAGE AREA.--59.7 mi^2 (154.6 km^2).

PERIOD OF RECORD.--July 1903 to September 1906, September 1972 to current year.

REVISED RECORDS.--WSP 1313: 1905-6. WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,500 ft (2,286 m), from topographic map. July 28, 1903 to Sept. 30, 1906, nonrecording gage at approximately same site at different datum. Sept. 1, 1972, to Sept 30, 1973, at site 40 ft (12 m) downstream at datum 1.69 ft (0.515 m) higher. Oct. 1, 1973, to Sept. 30, 1975, at site 126 ft (38 m) downstream at datum 5.0 ft (1.5 m) higher.

REMARKS.--Records good. Diversions above station for irrigation of 310 acres (1.25 km^2) of hay meadows. One small transbasin diversion above station to Ute Creek basin. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--13 years, 89.6 ft^3/s (2.537 m^3/s), 64,920 acre-ft/yr (80.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 723 ft^3/s (20.5 m^3/s) June 17, 1905, gage height, 3.50 ft (1.067 m), datum then in use; maximum gage height recorded, 5.39 ft (1.643 m), Dec. 17, 1972, site then in use (backwater from ice); minimum discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 256 ft^3/s (7.25 m^3/s) at 0400 July 1, gage height, 3.65 ft (1.113 m), no peak above base of 300 ft^3/s (8.50 m^3/s); minimum daily, 38 ft^3/s (1.08 m^3/s) Mar. 25, Apr. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	59	53	65	65	51	38	79	146	247	109	86
2	57	59	55	65	66	52	41	86	145	234	108	86
3	66	58	51	62	66	53	39	100	143	222	112	85
4	65	58	57	62	66	51	39	122	143	216	108	85
5	66	58	51	62	66	50	44	105	150	203	105	89
6	61	57	52	62	64	50	39	94	152	190	107	88
7	59	59	52	62	64	48	39	90	150	178	106	85
8	66	57	52	60	64	47	47	91	143	172	107	87
9	66	56	53	60	64	47	40	101	138	171	109	90
10	61	56	51	62	64	45	40	105	138	166	105	86
11	61	55	51	64	62	45	42	88	140	164	102	90
12	65	55	51	67	62	48	54	98	145	157	102	90
13	66	56	52	67	62	45	50	98	144	147	103	93
14	63	55	52	65	62	45	53	90	145	146	103	95
15	62	55	53	65	62	44	57	88	143	143	98	95
16	66	55	55	64	61	44	53	89	144	140	96	91
17	64	55	58	57	62	44	51	90	156	136	94	89
18	61	58	58	58	61	42	54	95	168	133	90	87
19	61	58	57	60	64	43	51	106	177	129	89	86
20	60	56	54	61	64	42	47	108	183	124	89	86
21	62	57	58	61	66	45	48	110	183	123	90	86
22	60	56	59	64	67	50	51	120	192	120	91	85
23	59	58	60	65	67	41	55	129	189	113	95	87
24	61	56	60	65	65	39	58	132	186	112	93	86
25	61	56	62	61	59	38	63	132	191	113	93	84
26	58	53	62	60	56	39	65	136	192	111	93	90
27	56	55	62	62	54	39	66	148	196	115	91	90
28	57	54	62	62	53	39	64	150	218	127	89	93
29	62	52	64	61	---	41	68	146	233	119	89	91
30	64	53	64	60	---	40	70	147	233	110	90	99
31	59	---	66	60	---	46	---	143	---	108	88	---
TOTAL	1914	1685	1747	1931	1758	1393	1526	3416	5006	4689	3044	2660
MEAN	61.7	56.2	56.4	62.3	62.8	44.9	50.9	110	167	151	98.2	88.7
MAX	66	59	66	67	67	53	70	150	233	247	112	99
MIN	56	52	51	57	53	38	38	79	138	108	88	84
AC-FT	3800	3340	3470	3830	3490	2760	3030	6780	9930	9300	6040	5280

CAL YR 1981 TOTAL 24393 MEAN 66.8 MAX 156 MIN 47 AC-FT 48380
WTR YR 1982 TOTAL 30769 MEAN 84.3 MAX 247 MIN 38 AC-FT 61030

09303000 NORTH FORK WHITE RIVER AT BUFORD, CO

LOCATION.--Lat 39°59'15", long 107°36'50", in NW¼NW¼ sec.9, T.1 S., R.91 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank 600 ft (180 m) east of Buford and 1.2 mi (1.9 km) upstream from South Fork White River.

DRAINAGE AREA.--260 mi^2 (673 km^2).

PERIOD OF RECORD.--Streamflow records, May 1910 to December 1915, July 1919 to December 1920, October 1951 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as North Fork White River near Buford prior to 1951 and as White River at Buford 1951-67. Records for July 1903 to December 1906 at site 6.5 mi (10.5 km) upstream not equivalent because of inflow between sites. Water-quality data available October 1976 to February 1978. Sediment data available, October 1976 to September 1977.

REVISED RECORDS.--WSP 1343: 1912. WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,010 ft (2,137 m), from topographic map. May 24, 1910, to May 27, 1914, nonrecording gage at site 1.5 mi (2.4 km) upstream at different datum. May 28, 1914, to Dec. 7, 1915, and July 1, 1919, to Oct. 9, 1920, nonrecording gage at present site at different datum. Several observations of specific-conductance and water temperature were obtained, and are published elsewhere in this report.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation of about 900 acres (3.64 km^2) above and 300 acres (1.21 km^2) below station.

AVERAGE DISCHARGE.--37 years (water years 1911-15, 1920, 1952-82), 306 ft^3/s (8.666 m^3/s), 221,700 acre-ft/yr (273 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,150 ft^3/s (89.2 m^3/s) May 30, 1912; maximum gage height, 7.22 ft (2.201 m) Jan. 9, 1961 (backwater from ice); minimum daily discharge, 90 ft^3/s (2.55 m^3/s) Feb. 21, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s (28 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 3	2400	1,010	28.6	5.49	0.191	July 1	0700	1,050	29.7	5.54	0.193
May 27	2400	* 1,190	33.7	5.73	0.199						

Minimum daily discharge, 130 ft^3/s (3.68 m^3/s) Mar. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145	162	185	190	185	130	164	605	908	992	386	264
2	144	164	179	190	185	140	166	722	859	936	390	257
3	167	164	156	180	185	149	160	838	866	880	398	254
4	182	162	159	180	185	145	166	943	873	831	378	254
5	183	162	156	180	185	143	166	782	929	796	358	268
6	168	160	156	180	175	145	166	662	929	775	354	268
7	161	160	157	180	175	143	166	626	880	644	350	247
8	164	158	156	170	175	145	164	698	901	638	346	254
9	176	155	156	170	175	143	160	754	880	680	362	243
10	162	153	153	180	175	143	173	747	880	610	346	240
11	165	152	150	185	165	147	181	632	866	615	342	271
12	175	152	150	190	165	155	257	656	908	585	334	271
13	174	154	151	190	165	151	243	600	894	555	334	289
14	173	153	152	180	165	153	278	525	901	545	346	289
15	174	152	154	180	165	155	306	535	859	525	318	299
16	188	152	157	175	160	155	303	550	845	502	306	299
17	177	151	160	160	165	155	303	590	908	488	306	268
18	169	156	170	170	160	153	330	650	936	479	314	247
19	167	158	160	170	170	153	334	761	922	466	299	236
20	165	152	150	170	170	149	299	775	936	452	289	240
21	163	156	170	170	175	149	275	789	922	439	292	229
22	161	158	180	180	180	151	285	880	915	426	299	226
23	158	162	180	180	185	151	334	964	894	414	310	226
24	164	160	180	180	175	153	370	985	873	410	292	219
25	161	160	185	170	165	155	443	929	894	410	292	226
26	163	150	185	170	155	160	475	971	887	406	289	257
27	164	159	185	175	145	162	452	1050	880	430	292	254
28	155	168	185	175	135	166	448	1050	908	479	282	254
29	163	178	190	170	---	166	511	992	922	448	278	264
30	171	185	190	170	---	166	470	950	796	410	278	282
31	164	---	195	170	---	164	---	887	---	394	275	---
TOTAL	5166	4768	5192	5480	4765	4695	8548	24098	26771	17660	10035	7695
MEAN	167	159	167	177	170	151	285	777	892	570	324	257
MAX	188	185	195	190	185	166	511	1050	936	992	398	299
MIN	144	150	150	160	135	130	160	525	796	394	275	219
AC-FT	10250	9460	10300	10870	9450	9310	16950	47800	53100	35030	19900	15260

CAL YR 1981 TOTAL 79492 MEAN 218 MAX 912 MIN 124 AC-FT 157700
WTR YR 1982 TOTAL 124873 MEAN 342 MAX 1050 MIN 130 AC-FT 247700

09303300 SOUTH FORK WHITE RIVER AT BUDGE'S RESORT, CO

LOCATION.--Lat 39°50'36", long 107°20'03", in NW¼ sec.36, T.2 S., R.89 W., Garfield County, Hydrologic Unit 14050005, on right bank 20 ft (6 m) upstream from Forest Service trail bridge, 0.2 mi (0.3 km) upstream from Wagonwheel Creek, and 0.3 mi (0.5 km) northeast of Budge's Resort.

DRAINAGE AREA.--52.3 mi² (135.5 km²).

PERIOD OF RECORD.--June 1975 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 8,980 ft (2,737 m), from topographic map. June 1, 1975, to July 7, 1976, at site on left bank 50 ft (15 m) upstream at datum 1.3 ft (0.396 m) lower.

REMARKS.--Records fair except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--7 years, 98.0 ft³/s (2.775 m³/s), 71,000 acre-ft/yr (87.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,580 ft³/s (44.7 m³/s) June 8, 1981, gage height, 5.95 ft (1.814 m); minimum daily, 21 ft³/s (0.59 m³/s) Sept. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 990 ft³/s (28.0 m³/s) at 1800 July 1, gage height, 5.35 ft (1.631 m); minimum daily, 26 ft³/s (0.74 m³/s) Feb. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	47	47	42	32	46	46	110	332	663	98	64
2	38	47	44	40	27	46	44	126	334	524	102	61
3	46	46	47	37	26	46	46	149	333	436	106	60
4	49	44	50	37	28	46	45	166	340	394	97	61
5	50	44	52	40	30	46	46	154	370	327	91	74
6	47	45	47	40	31	46	44	146	367	282	88	71
7	45	46	47	35	33	46	45	139	368	278	87	66
8	60	46	46	39	34	46	45	141	379	250	87	66
9	52	47	45	41	36	46	45	148	391	268	90	66
10	49	45	42	42	38	48	45	151	396	236	88	65
11	50	45	39	42	40	48	50	149	406	220	87	67
12	51	46	38	42	40	45	58	145	432	207	87	68
13	53	43	39	42	42	45	60	138	432	193	87	73
14	54	42	40	42	44	45	67	129	440	178	85	74
15	52	42	41	42	44	45	68	124	429	166	80	83
16	55	42	42	41	40	45	65	123	453	156	85	82
17	52	41	41	40	40	46	65	126	541	151	84	74
18	49	43	42	38	40	45	63	136	521	145	83	68
19	47	43	44	36	40	46	62	145	515	136	78	65
20	46	52	42	34	40	46	61	147	572	129	80	64
21	45	49	40	32	42	46	63	154	523	125	81	63
22	44	42	40	30	44	46	65	186	550	121	82	61
23	42	41	41	29	44	46	66	213	492	117	78	63
24	44	38	41	30	44	45	72	226	488	116	74	60
25	46	38	42	31	44	45	75	235	496	113	73	59
26	44	35	45	31	44	44	78	262	477	118	75	74
27	45	32	45	28	44	43	78	298	523	119	73	76
28	43	38	42	29	44	43	78	312	607	138	70	74
29	47	43	42	28	---	45	83	322	629	125	70	74
30	47	45	45	29	---	46	94	331	571	111	70	81
31	46	---	42	31	---	50	---	321	---	103	68	---
TOTAL	1477	1297	1340	1120	1075	1417	1822	5652	13707	6645	2584	2057
MEAN	47.6	43.2	43.2	36.1	38.4	45.7	60.7	182	457	214	83.4	68.6
MAX	60	52	52	42	44	50	94	331	629	663	106	83
MIN	38	32	38	29	26	43	44	110	332	103	68	59
AC-FT	2930	2570	2660	2220	2130	2810	3610	11210	27190	13180	5130	4080

CAL YR 1981 TOTAL 25586 MEAN 70.1 MAX 826 MIN 30 AC-FT 50750
WTR YR 1982 TOTAL 40193 MEAN 110 MAX 663 MIN 26 AC-FT 79720

NOTE.--NO GAGE-HEIGHT RECORD NOV. 24 TO DEC. 4, DEC. 27 TO MAR. 9.

09303320 WAGONWHEEL CREEK AT BUDGE'S RESORT, CO

LOCATION.--Lat 39°50'40", long 107°20'10", in SW¼SW¼ sec.25, T.2 S., R.89 W., Garfield County, Hydrologic Unit 14050005, on right bank 60 ft (18 m) upstream from mouth and confluence of South Fork White River, about 800 ft (240 m) downstream from private road bridge, and 0.2 mi (0.3 km) north-northeast of Budge's Resort.

DRAINAGE AREA.--7.36 mi² (19.06 km²).

PERIOD OF RECORD.--June 1975 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 8,980 ft (2,737 m), from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--7 years, 7.88 ft³/s (0.223 m³/s), 5,710 acre-ft/yr (7.04 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 223 ft³/s (6.32 m³/s) June 12, 1980, gage height, 4.27 ft (1.301 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 193 ft³/s (5.47 m³/s) at 1830 June 9, gage height, 3.91 ft (1.192 m), only peak above base of 55 ft³/s (1.56 m³/s); no flow most days during winter period.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.82	.00	.00	.00	.00	.56	1.7	103	79	5.4	1.2
2	.14	.82	.00	.00	.00	.00	.54	2.2	109	79	4.9	1.2
3	.16	.82	.00	.00	.00	.00	.55	2.8	132	61	4.8	1.2
4	.28	.82	.00	.00	.00	.00	.55	4.2	116	52	4.4	1.3
5	.38	.82	.00	.00	.00	.00	.57	4.5	131	44	3.8	1.3
6	.38	.82	.00	.00	.00	.00	.58	4.5	125	38	3.4	1.3
7	.35	.76	.00	.00	.00	.00	.59	4.6	130	30	2.9	1.3
8	.52	.63	.00	.00	.00	.00	.60	6.8	141	27	2.8	1.2
9	.52	.63	.00	.00	.00	.00	.61	11	151	27	2.7	1.3
10	.52	.70	.00	.00	.00	.00	.62	15	158	25	2.6	1.3
11	.52	.66	.00	.00	.00	.00	.63	15	154	22	2.5	1.3
12	.63	.66	.00	.00	.00	.00	.64	15	159	20	2.4	1.3
13	.82	.70	.00	.00	.00	.00	.64	14	153	19	2.4	1.3
14	.94	.70	.00	.00	.00	.00	.62	13	156	17	2.4	1.4
15	.70	.70	.00	.00	.00	.00	.63	13	138	15	2.1	1.5
16	.70	.59	.00	.00	.00	.00	.63	12	139	14	1.9	1.8
17	.76	.55	.00	.00	.00	.00	.65	11	155	13	1.8	1.8
18	.76	.50	.00	.00	.00	.00	.65	12	146	12	1.7	1.8
19	.66	.40	.00	.00	.00	.00	.66	13	136	11	1.4	1.9
20	.63	.30	.00	.00	.00	.00	.67	13	137	9.8	1.1	1.9
21	.63	.20	.00	.00	.00	.00	.68	15	133	9.2	1.1	1.9
22	.70	.10	.00	.00	.00	.00	.69	17	130	8.8	1.1	1.9
23	.76	.00	.00	.00	.00	.00	.67	24	114	8.3	1.1	1.9
24	.63	.00	.00	.00	.00	.00	.61	31	105	8.0	1.1	2.0
25	.76	.00	.00	.00	.00	.00	.69	37	100	8.6	1.2	2.0
26	1.1	.00	.00	.00	.00	.00	.82	48	101	7.2	1.2	2.0
27	.88	.00	.00	.00	.00	.10	.83	71	103	7.0	1.1	2.0
28	.55	.00	.00	.00	.00	.20	.91	92	104	6.9	1.2	2.0
29	.59	.00	.00	.00	---	.30	1.0	104	98	6.6	1.2	2.1
30	.63	.00	.00	.00	---	.40	1.3	112	88	6.2	1.2	2.1
31	.70	---	.00	.00	---	.50	---	102	---	5.9	1.2	---
TOTAL	18.44	13.70	.00	.00	.00	1.50	20.39	841.3	3845	697.5	70.1	48.5
MEAN	.59	.46	.000	.000	.000	.048	.68	27.1	128	22.5	2.26	1.62
MAX	1.1	.82	.00	.00	.00	.50	1.3	112	159	79	5.4	2.1
MIN	.14	.00	.00	.00	.00	.00	.54	1.7	88	5.9	1.1	1.2
AC-FT	37	27	.00	.00	.00	3.0	40	1670	7630	1380	139	96

CAL YR 1981 TOTAL 1902.18 MEAN 5.21 MAX 93 MIN .00 AC-FT 3770
WTR YR 1982 TOTAL 5556.43 MEAN 15.2 MAX 159 MIN .00 AC-FT 11020

NOTE.--NO GAGE-HEIGHT RECORD NOV. 18 TO MAR. 31.

09303400 SOUTH FORK WHITE RIVER NEAR BUDGE'S RESORT, CO

LOCATION.--Lat 39°51'51", long 107°32'00", in NW¼SE¼ sec.19, T.2 S., R.90 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank on downstream side of Forest Service bridge, 300 ft (91 m) upstream from South Fork Campground, 10 mi (16.1 km) above mouth, and about 10.5 mi (17 km) southeast of Buford.

DRAINAGE AREA.--128 mi^2 (332 km^2).

PERIOD OF RECORD.--May 1976 to current year.

REVISED RECORDS.--WDR CO-79-3: 1976(M), 1977, 78(P), 1978.

GAGE.--Water-stage recorder. Altitude of gage is 7,600 ft (2,316 m), from topographic map.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are poor. No regulation or diversions above station.

AVERAGE DISCHARGE.--6 years, 186 ft^3/s (5.268 m^3/s), 134,800 acre-ft/yr (166 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,940 ft^3/s (83.3 m^3/s) June 14, 1978, gage height, 5.36 ft (1.634 m); minimum daily, 40 ft^3/s (1.13 m^3/s) Feb. 1 to Mar. 10, 1980, Dec. 30, 1980, Jan. 10, 15, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,170 ft^3/s (33.1 m^3/s) at 2400 June 17, gage height, 4.3 ft (1.311 m); only peak above base of 500 ft^3/s (14 m^3/s); minimum daily, 47 ft^3/s (1.33 m^3/s) Feb. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	86	88	68	59	55	60	209	833	850	129	90
2	65	83	80	64	48	55	58	265	849	770	132	91
3	73	83	76	64	47	54	56	354	842	600	143	91
4	81	82	82	66	50	53	59	471	836	580	129	91
5	83	81	74	68	52	54	61	444	907	560	123	113
6	82	80	80	64	54	62	59	340	901	550	120	115
7	78	83	76	62	56	62	58	315	905	540	118	103
8	83	79	70	68	58	57	64	317	943	530	117	106
9	90	74	70	70	60	53	72	352	972	520	120	106
10	84	73	72	74	62	52	67	379	977	520	118	96
11	86	74	68	66	64	52	63	356	982	480	118	96
12	88	79	66	64	64	56	81	348	1020	440	125	101
13	91	77	74	63	66	55	83	331	1020	410	124	103
14	94	77	66	62	68	55	96	306	1010	379	121	111
15	91	77	68	60	68	55	106	299	964	323	114	123
16	98	76	70	58	66	55	103	292	925	264	112	118
17	94	74	70	58	66	55	99	294	1040	221	120	106
18	90	84	70	58	66	54	103	314	1030	208	113	101
19	86	80	74	58	66	55	100	358	966	194	108	101
20	83	84	68	58	66	56	98	381	950	180	106	98
21	80	89	64	59	68	61	95	438	950	169	108	98
22	78	80	72	57	70	73	95	549	904	164	111	95
23	76	79	72	56	65	80	102	637	842	153	116	93
24	79	77	62	57	63	76	106	685	805	152	109	93
25	79	78	66	60	60	59	123	707	809	154	103	88
26	82	63	66	60	66	56	129	757	793	151	103	93
27	81	62	66	54	60	55	135	832	790	157	100	106
28	79	73	64	55	58	55	132	847	860	183	97	118
29	83	85	66	53	---	57	145	873	890	190	97	118
30	85	87	68	54	---	59	164	878	830	156	101	115
31	84	---	66	59	---	65	---	829	---	140	95	---
TOTAL	2576	2359	2194	1897	1716	1801	2772	14757	27345	10888	3550	3077
MEAN	83.1	78.6	70.8	61.2	61.3	58.1	92.4	476	912	351	115	103
MAX	98	89	88	74	70	80	164	878	1040	850	143	123
MIN	65	62	62	53	47	52	56	209	790	140	95	88
AC-FT	5110	4680	4350	3760	3400	3570	5500	29270	54240	21600	7040	6100

CAL YR 1981 TOTAL 48562 MEAN 133 MAX 862 MIN 40 AC-FT 96320
WTR YR 1982 TOTAL 74932 MEAN 205 MAX 1040 MIN 47 AC-FT 148600

NOTE.--NO GAGE-HEIGHT RECORD DEC. 2 TO JAN. 20, FEB. 4-28, JUNE 28 TO JULY 13, AUG. 27 TO SEPT. 8.

09303500 SOUTH FORK WHITE RIVER NEAR BUFORD, CO

LOCATION.--Lat 39°55'18", long 107°33'04", in NW¼SE¼ sec.36, T.1 S., R.91 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank at upstream side of county bridge, 10 ft (3 m) downstream from Peltier Creek, and 5.6 mi (9.0 km) southeast of Buford.

DRAINAGE AREA.--152 mi² (394 km²).

PERIOD OF RECORD.--August 1903 to October 1906, June 1910 to December 1915, October 1942 to September 1947, April 1967 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1057: 1944-45, WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,480 ft (2,280 m), from topographic map. July 26, 1903, to Oct. 31, 1906, nonrecording gage, and Oct. 1, 1942, to Sept. 30, 1947, water-stage recorder, at site 60 ft (18 m) upstream at different datums. Records for 1919-20 at site 6.0 mi (9.7 km) downstream not equivalent.

REMARKS.--Records good. Diversions for irrigation of about 600 acres (2.43 km²) of hay meadows above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--28 years (water years 1904-06, 1911-15, 1943-47, 1968-82), 258 ft³/s (7.307 m³/s), 186,900 acre-ft (230 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 3,230 ft³/s (91.5 m³/s) June 17, 1906, gage height, 8.2 ft (2.50 m), site and datum then in use, from rating curve extended above 1,600 ft³/s (45 m³/s); minimum discharge recorded, 56 ft³/s (1.59 m³/s) Dec. 18, 1946, gage height, 1.01 ft (0.308 m), site and datum then in use, but may have been less during periods of no gage-height record.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,390 ft³/s (39.4 m³/s) at 0400 June 18, gage height, 5.55 ft (1.692 m), only peak above base of 1,200 ft³/s (34 m³/s); minimum daily, 79 ft³/s (2.24 m³/s) Jan. 21, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	107	96	91	93	91	97	254	1050	1180	207	140
2	100	105	99	86	84	96	95	313	1090	1110	226	136
3	100	105	99	86	86	96	95	390	1110	942	238	136
4	108	104	107	88	82	92	98	522	1010	862	216	136
5	112	104	99	92	83	83	93	494	1170	782	197	153
6	107	104	141	92	88	94	93	430	1220	694	162	155
7	104	107	117	86	86	98	85	394	1180	630	185	143
8	108	102	115	85	95	100	93	387	1240	602	178	141
9	115	97	127	100	95	92	99	408	1270	642	158	141
10	107	107	104	108	97	90	94	438	1300	570	155	138
11	107	113	92	122	94	91	102	430	1240	530	185	143
12	118	118	94	102	96	97	130	418	1280	490	200	149
13	118	102	91	99	100	92	135	404	1290	462	197	160
14	120	97	113	96	103	95	157	369	1330	426	190	162
15	118	97	92	95	103	95	165	349	1240	394	176	164
16	125	97	94	94	102	97	158	337	1140	369	176	173
17	120	96	102	92	105	96	152	331	1300	349	180	162
18	113	94	102	93	96	95	158	343	1340	337	173	151
19	110	104	102	90	108	95	149	394	1270	316	168	145
20	108	92	105	90	114	84	138	418	1250	298	166	143
21	108	108	97	79	120	85	137	438	1270	284	168	140
22	105	102	86	80	117	100	139	522	1240	276	171	136
23	102	99	110	79	100	120	148	650	1170	265	171	136
24	105	97	92	94	98	102	152	742	1120	265	164	132
25	102	96	80	96	101	98	154	767	1130	265	158	131
26	105	92	88	100	113	92	154	822	1120	260	158	145
27	107	115	89	95	104	92	142	1010	1120	268	155	160
28	102	108	85	92	95	93	127	1120	1190	307	147	166
29	110	102	86	100	---	96	228	1100	1220	289	147	166
30	110	104	92	94	---	79	202	1170	1160	251	151	183
31	108	---	89	101	---	105	---	1060	---	200	145	---
TOTAL	3381	3075	3085	2897	2758	2931	3969	17224	36060	14915	5468	4466
MEAN	109	103	99.5	93.5	98.5	94.5	132	556	1202	481	176	149
MAX	125	118	141	122	120	120	228	1170	1340	1180	238	183
MIN	99	92	80	79	82	79	85	254	1010	200	145	131
AC-FT	6710	6100	6120	5750	5470	5810	7870	34160	71520	29580	10850	8860

CAL YR 1981 TOTAL 67341 MEAN 184 MAX 1170 MIN 79 AC-FT 133600
WTR YR 1982 TOTAL 100229 MEAN 275 MAX 1340 MIN 79 AC-FT 198800

09304000 SOUTH FORK WHITE RIVER AT BUFORD, CO

LOCATION.--Lat 39°58'28", long 107°37'30", in NW¼NE¼ sec.17, T.1 S., R.91 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 300 ft (91 m) downstream from highway bridge, 0.8 mi (1.3 km) upstream from mouth, and 1.0 mi (1.6 km) south of Buford.

DRAINAGE AREA.--177 mi² (458 km²).

PERIOD OF RECORD.--Streamflow records, July 1919 to December 1920 (monthly discharge only, published in WSP 1313), October 1951 to current year. Water-quality data available, October 1976 to February 1978. Sediment data available, October 1976 to February 1978.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,970 ft (2,124 m), from topographic map. Prior to Nov. 30, 1920, nonrecording gage at site 200 ft (61 m) downstream at different datum. Oct. 1951 to Apr. 1981, at site 500 ft (152 m) downstream, at different datum.

REMARKS.--Records good, except those for winter period, which are fair. Diversions above station for irrigation of about 1,100 acres (4.45 km²) above station and a small area below. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--32 years, 252 ft³/s (7.137 m³/s), 182,600 acre-ft/yr (225 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,000 ft³/s (85 m³/s) June 16, 1978; maximum gage height, 7.07 ft (2.155 m) site and datum then is use, June 30, 1957; minimum daily discharge, 47 ft³/s (1.33 m³/s) Jan. 15, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,290 ft³/s (36.5 m³/s) at 0800 June 18, gage height, 4.27 ft (1.301 m), no peak above base of 1,300 ft³/s (37 m³/s); minimum daily, 76 ft³/s (2.15 m³/s) Dec. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	150	93	110	105	95	98	276	979	1090	245	168
2	110	157	92	105	100	104	86	329	1020	1060	242	158
3	137	164	91	105	100	99	89	416	1030	931	269	156
4	146	159	90	105	96	96	95	556	962	858	239	154
5	145	163	89	110	90	89	92	537	1010	809	232	176
6	137	160	84	110	97	92	86	482	1110	712	246	162
7	136	168	90	100	105	100	79	437	1070	641	243	136
8	147	162	101	100	110	99	79	423	1080	602	243	195
9	162	154	98	103	110	87	85	448	1110	633	262	173
10	144	152	76	105	110	86	94	488	1140	593	256	167
11	143	132	78	105	105	92	88	478	1110	534	255	173
12	162	100	78	104	105	97	128	464	1140	500	260	175
13	159	109	77	102	105	96	135	454	1170	471	268	185
14	164	105	78	101	105	102	159	414	1140	434	264	187
15	163	106	78	100	107	98	175	400	1140	401	239	185
16	181	107	79	98	111	95	167	400	1080	372	224	195
17	162	107	93	97	110	94	154	405	1130	347	221	181
18	155	108	98	96	120	93	166	428	1240	333	208	167
19	153	119	125	98	120	90	158	487	1200	312	196	157
20	149	122	110	100	120	89	158	523	1190	306	192	155
21	148	103	110	102	120	83	150	550	1200	300	197	149
22	149	99	111	103	151	108	153	640	1150	291	198	139
23	145	99	111	103	111	104	161	780	1100	280	204	137
24	148	101	112	103	105	116	161	875	1050	280	193	132
25	146	99	112	104	110	103	169	797	1030	287	185	130
26	147	98	113	106	131	93	169	827	1030	275	187	148
27	157	97	113	106	122	87	168	960	1050	293	185	162
28	146	96	110	105	98	87	184	1030	1080	318	178	172
29	147	95	110	110	---	96	212	1030	919	339	179	166
30	147	94	114	105	---	93	228	1040	1160	284	188	172
31	145	---	110	115	---	102	---	1030	---	260	178	---
TOTAL	4604	3685	3024	3216	3079	2965	4126	18404	32820	15146	6876	4912
MEAN	149	123	97.5	104	110	95.6	138	594	1094	489	222	164
MAX	181	168	125	115	151	116	228	1040	1240	1090	269	195
MIN	110	94	76	96	90	83	79	276	919	260	178	130
AC-FT	9130	7310	6000	6380	6110	5880	8180	36500	65100	30040	13640	9740

CAL YR 1981 TOTAL 62142 MEAN 170 MAX 1120 MIN 47 AC-FT 123300
WTR YR 1982 TOTAL 102857 MEAN 282 MAX 1240 MIN 76 AC-FT 204000

09304200 WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, CO

LOCATION.--Lat 40°00'18", long 107°49'29", in NW¼NW¼ sec.3, T.1 S., R.93 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 40 ft (12 m) downstream from county road bridge, 2.3 mi (3.7 km) upstream from Coal Creek, and 5.0 mi (8.0 km) southeast of Meeker.

DRAINAGE AREA.--648 mi^2 (1,678 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft (1,951 m), from topographic map. Oct. 1, 1961, to Sept. 30, 1976, at site 76 ft (23 m) upstream at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records good. Diversions above station for irrigation of about 8,000 acres (32.4 km^2) above station and about 4,000 acres (16.2 km^2) below.

AVERAGE DISCHARGE.--21 years, 541 ft^3/s (15.32 m^3/s), 392,000 acre-ft/yr (483 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,900 ft^3/s (139 m^3/s) May 29, 1979, gage height, 5.97 ft (1.820 m); minimum daily, 6.5 ft^3/s (0.18 m^3/s) July 19-21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,770 ft^3/s (78.4 m^3/s) at 0400 May 29, gage height, 5.06 ft (1.542 m); only peak above base of 2,000 ft^3/s (57 m^3/s); minimum daily, 202 ft^3/s (5.72 m^3/s) Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	245	301	251	299	286	273	275	820	2280	2430	416	304
2	216	306	270	276	271	279	272	1100	2190	2270	398	279
3	256	304	278	284	258	284	257	1300	2160	1970	429	264
4	284	300	257	234	264	280	269	1650	2000	1800	428	265
5	308	301	276	280	216	271	268	1300	2200	1680	399	293
6	307	299	265	298	202	265	272	1200	2280	1540	375	289
7	302	297	268	214	243	269	273	1160	2100	1310	346	264
8	307	295	266	224	272	293	249	1190	2230	1220	337	302
9	363	284	260	284	270	270	259	1330	2330	1280	364	277
10	345	275	263	343	285	270	253	1430	2220	1160	367	278
11	340	273	266	363	285	266	269	1350	2090	1050	378	338
12	357	273	261	349	285	280	347	1230	2200	992	430	364
13	356	283	261	334	291	274	353	1230	2240	925	468	399
14	355	277	263	337	299	279	381	1100	2220	899	472	400
15	356	273	270	354	297	281	440	1040	2230	838	431	430
16	391	273	273	338	291	281	435	1010	2060	808	358	445
17	375	269	264	327	290	282	416	1030	2240	771	349	398
18	357	282	270	309	275	278	435	1130	2330	755	385	376
19	344	279	280	309	269	278	453	1300	2200	727	376	380
20	336	241	287	304	277	272	415	1310	2150	695	375	374
21	330	283	288	294	276	246	415	1370	2120	651	406	364
22	320	277	279	284	284	251	445	1560	2050	601	381	359
23	306	276	248	273	289	256	510	1830	1950	458	397	369
24	307	274	258	307	279	261	530	2230	1840	551	372	367
25	310	274	268	302	274	260	505	2290	1900	566	355	376
26	306	257	275	303	269	267	710	2380	1950	453	354	407
27	314	245	294	304	281	269	734	2660	1850	586	373	425
28	301	284	275	271	277	269	731	2740	1880	632	372	470
29	310	281	273	304	---	278	743	2600	2290	613	356	495
30	329	281	299	275	---	270	800	2640	2430	438	355	545
31	304	---	292	300	---	254	---	2320	---	487	350	---
TOTAL	9937	8417	8398	9277	7655	8406	12714	48830	64210	31156	11952	10896
MEAN	321	281	271	299	273	271	424	1575	2140	1005	386	363
MAX	391	306	299	363	299	293	800	2740	2430	2430	472	545
MIN	216	241	248	214	202	246	249	820	1840	438	337	264
AC-FT	19710	16700	16660	18400	15180	16670	25220	96850	127400	61800	23710	21610

CAL YR 1981 TOTAL 124610 MEAN 341 MAX 1570 MIN 72 AC-FT 247200
WTR YR 1982 TOTAL 231848 MEAN 635 MAX 2740 MIN 202 AC-FT 459900

09304200 WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1978 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1978 to current year.
WATER TEMPERATURES: July 1978 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1978.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

COOPERATION.--Chemical quality data are furnished by the U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 511 micromhos Dec. 24, 1981; minimum, 152 micromhos June 14, 1980.
WATER TEMPERATURES: Maximum, 22.0°C July 8, 1981; minimum, 0.0°C many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 511 micromhos Dec. 24, 1981; minimum, 187 micromhos July 2.
WATER TEMPERATURES: Maximum, 19.5°C Aug. 21; minimum, 0.0°C many days during October to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT										
02...	1345	218	410	440	8.2	10.0	210	63	12	4.6
09...	1035	374	395	400	8.0	7.0	200	61	11	4.1
16...	1115	402	400	287	8.0	6.0	190	59	10	3.0
23...	1115	318	395	309	8.0	3.0	200	60	12	7.6
NOV										
02...	1000	310	450	287	8.0	2.0	200	60	11	5.5
06...	1000	306	380	309	8.1	3.0	190	59	11	5.5
13...	0910	290	390	319	7.9	2.0	200	61	12	7.6
DEC										
07...	1420	230	400	309	8.3	2.0	210	63	12	6.7
11...	1015	266	400	419	7.9	1.0	210	64	12	6.7
22...	1405	266	400	352	8.4	.5	200	61	11	5.5
30...	1030	298	400	300	8.0	.0	200	63	11	5.5
JAN										
08...	1455	185	470	369	8.1	.0	200	61	11	5.5
14...	1350	326	415	382	8.1	.0	200	64	11	5.5
29...	1415	298	400	376	8.0	1.0	190	59	9.0	5.5
FEB										
04...	1345	245	390	367	8.0	.0	180	58	9.0	5.5
12...	1500	263	400	399	8.1	.0	210	66	10	5.5
18...	1140	242	400	382	8.0	1.0	190	63	9.0	5.5
24...	1355	254	390	394	8.1	5.0	210	63	12	6.7
MAR										
04...	1410	278	405	376	8.2	5.0	200	64	11	5.5
11...	1405	266	400	386	8.4	7.0	200	60	11	6.7
19...	1140	275	410	383	8.0	4.0	210	64	12	4.4
26...	1130	269	390	376	8.0	5.0	200	63	11	4.4
APR										
09...	1345	221	390	410	8.1	7.0	200	61	12	6.7
16...	1510	525	360	350	8.6	8.5	180	54	11	6.7
23...	0940	555	340	370	8.5	5.5	180	54	11	6.7
30...	1350	680	315	321	8.7	8.5	160	47	9.0	5.5
MAY										
07...	1150	1190	260	290	8.0	5.5	140	42	9.0	5.5
19...	1455	1270	255	270	8.5	9.0	140	41	9.0	5.5
27...	1050	2660	225	230	8.1	7.0	120	35	7.0	3.2
JUN										
01...	1610	2140	240	240	8.2	9.0	120	35	8.0	4.4
08...	1650	2090	225	260	8.3	10.0	120	33	8.0	4.4
16...	1450	2010	228	240	8.5	11.0	110	33	7.0	3.2
25...	1020	1930	215	0	8.1	9.0	0	.0	.0	.0
30...	1545	2320	195	220	8.3	13.0	94	28	6.0	7.1
JUL										
07...	1640	1260	240	400	8.4	13.5	170	38	18	22
13...	1020	952	275	300	8.1	12.0	160	41	13	12
22...	1210	620	315	320	8.4	17.0	160	44	13	9.9
28...	1450	6380	299	320	8.3	13.5	160	44	13	11
AUG										
04...	1320	440	325	340	8.6	17.0	180	48	14	9.9
16...	1415	366	349	360	8.6	18.5	180	53	11	7.6
20...	0650	362	340	360	8.1	14.5	180	52	12	12
24...	1435	382	350	380	8.6	18.5	180	53	12	9.9
SEP										
01...	1055	314	357	380	8.4	13.5	180	54	12	6.7
10...	0845	272	380	390	8.2	11.5	190	57	12	6.7
16...	1205	425	343	350	8.5	10.5	170	53	10	5.5
23...	1320	362	360	370	8.8	13.5	180	54	11	6.7
30...	1440	440	350	350	8.5	8.0	180	53	11	5.5

09304200 WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT									
02...	.1	1.2	132	6	97	4.3	252	.34	148
09...	.1	1.2	135	0	89	2.1	235	.32	237
16...	.1	1.2	135	0	83	2.8	225	.31	244
23...	.2	1.2	138	0	87	5.7	242	.33	208
NOV									
02...	.2	1.2	131	5	82	3.6	232	.32	194
06...	.2	1.2	139	0	82	1.8	229	.31	189
13...	.2	.8	140	0	93	3.2	247	.34	193
DEC									
07...	.2	1.2	122	8	121	1.4	272	.37	169
11...	.2	.8	135	0	91	2.1	243	.33	175
22...	.2	.8	126	2	82	2.8	228	.31	164
30...	.2	.8	133	0	83	4.3	232	.32	187
JAN									
08...	.2	1.2	122	5	103	3.6	250	.34	125
14...	.2	1.2	126	4	104	2.1	253	.34	223
29...	.2	.8	117	5	72	1.8	209	.28	168
FEB									
04...	.2	.8	124	0	82	3.6	219	.30	145
12...	.2	.8	123	5	95	3.2	245	.33	174
18...	.2	.8	121	4	86	2.8	230	.31	150
24...	.2	2.0	126	5	97	7.1	250	.34	171
MAR									
04...	.2	1.6	116	5	94	8.9	250	.34	188
11...	.2	1.2	119	3	119	5.3	270	.37	194
19...	.1	1.2	115	7	102	12	260	.35	193
26...	.1	1.2	126	4	102	8.9	260	.35	189
APR									
09...	.2	1.2	118	8	104	.7	250	.34	149
16...	.2	1.2	130	0	97	2.1	240	.33	340
23...	.2	2.7	132	0	97	2.1	240	.33	360
30...	.2	1.2	115	5	59	2.1	180	.24	330
MAY									
07...	.2	1.2	124	0	40	6.4	160	.22	514
19...	.2	1.2	102	8	37	3.6	150	.20	514
27...	.1	1.2	107	2	22	2.1	120	.16	862
JUN									
01...	.2	.8	113	3	24	5.0	140	.19	809
08...	.2	3.5	121	0	23	.7	130	.18	734
16...	.1	3.1	114	1	25	.7	130	.18	706
25...	.0	.0	0	0	.0	.0	0	.00	.00
30...	.3	.4	96	0	22	.7	110	.15	689
JUL									
07...	.7	.4	123	0	94	5.0	240	.33	816
13...	.4	2.0	132	0	55	4.3	190	.26	488
22...	.3	2.0	131	0	62	2.5	200	.27	335
28...	.4	2.3	129	0	63	1.8	200	.27	3450
AUG									
04...	.3	2.3	129	1	72	1.8	210	.29	249
16...	.3	2.0	132	5	85	2.1	230	.31	227
20...	.4	2.0	141	0	65	4.6	220	.30	215
24...	.3	2.0	131	4	71	1.1	220	.30	227
SEP									
01...	.2	2.0	138	2	72	11	230	.31	195
10...	.2	2.3	143	0	80	1.4	230	.31	169
16...	.2	2.0	129	2	72	1.1	210	.29	241
23...	.2	2.3	129	6	80	1.4	220	.30	215
30...	.2	2.7	125	5	70	1.1	210	.29	249

09304200 WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, CO--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
APR					JUN				
30...	1350	680	33	61	25...	1020	1930	28	146
MAY					30...	1530	2320	60	376
14...	1410	1070	58	168	JUL				
19...	1500	1270	52	178	13...	1030	952	53	136
JUN					22...	1220	620	20	33
01...	1610	2140	58	335	28...	1450	6380	28	482
08...	1650	2090	60	339					
16...	1450	2010	43	233					

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	400	376	406	377	386	388	414	280	225	195	321	354
2	409	371	402	383	395	382	415	262	219	195	322	356
3	---	369	384	382	401	378	431	254	218	205	318	357
4	---	362	402	398	405	384	417	245	220	212	322	358
5	---	364	386	376	439	394	414	264	216	217	329	350
6	---	363	393	382	436	407	407	272	214	226	332	342
7	---	362	389	417	425	404	427	274	218	245	334	354
8	---	368	389	427	399	403	442	270	211	251	336	354
9	---	374	398	399	409	392	419	261	220	252	331	359
10	---	372	384	391	398	407	425	260	220	250	338	368
11	---	375	390	392	419	399	407	269	222	257	344	365
12	---	390	380	384	420	385	388	272	220	260	338	360
13	---	378	382	413	411	398	387	278	220	273	337	359
14	---	372	387	410	382	388	386	288	219	261	334	352
15	---	372	367	408	385	378	371	288	218	266	341	353
16	379	380	379	400	383	377	365	284	215	269	349	345
17	382	375	398	380	381	372	349	277	223	274	340	346
18	385	375	423	396	386	372	340	267	218	279	327	355
19	382	381	405	392	389	380	334	260	205	284	330	359
20	384	405	370	400	382	387	343	247	205	287	336	356
21	385	385	374	401	373	415	382	239	206	288	336	356
22	389	382	383	400	375	421	375	221	209	299	344	359
23	391	381	406	400	372	410	343	213	211	304	341	359
24	386	380	453	390	381	412	334	216	215	307	347	361
25	386	389	429	384	384	418	316	224	212	311	351	363
26	391	404	411	377	391	422	304	221	210	316	349	355
27	391	422	392	368	381	414	308	215	209	312	348	344
28	374	398	405	399	380	412	316	210	202	298	348	345
29	365	394	411	372	---	412	302	213	195	287	346	342
30	359	394	378	384	---	425	311	220	194	304	345	345
31	377	---	388	378	---	437	---	224	---	313	348	---
MEAN		380	395	392	395	399	372	251	214	268	337	354

WTR YR 1982 MEAN 344 MAX 453 MIN 194

09304200 WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.0	8.5	4.0	.5	.0	.0	.5	.0	1.0	.0	4.5	2.0
2	---	---	5.0	1.0	.5	.0	.0	.0	.5	.0	6.5	3.5
3	---	---	5.5	1.5	1.0	.0	.0	.0	.5	.0	4.5	3.0
4	---	---	5.5	2.0	1.0	.0	.0	.0	.0	.0	5.5	1.0
5	---	---	5.5	2.0	2.5	.0	.0	.0	.0	.0	4.5	1.0
6	---	---	5.5	2.5	2.5	.0	.0	.0	.0	.0	4.5	.0
7	---	---	6.5	4.5	2.0	.0	.0	.0	.0	.0	4.0	1.0
8	---	---	5.5	3.0	2.0	.0	.0	.0	.0	.0	4.5	.5
9	---	---	5.0	2.0	2.5	.0	.0	.0	.0	.0	7.0	1.5
10	---	---	4.5	1.0	2.5	.0	.0	.0	.0	.0	5.5	3.0
11	---	---	4.5	.5	3.0	1.0	.0	.0	.0	.0	7.5	3.5
12	---	---	4.5	1.0	2.5	.5	.0	.0	.5	.0	7.5	4.0
13	---	---	5.0	2.0	2.0	.5	.0	.0	.5	.0	7.5	1.5
14	---	---	5.5	3.5	1.5	.0	.0	.0	1.0	.0	7.5	3.0
15	---	---	6.5	4.0	2.5	1.0	.0	.0	3.5	.5	8.5	4.5
16	8.0	6.0	6.5	3.5	1.5	.0	.0	.0	2.5	.5	7.5	4.0
17	7.0	5.0	5.0	2.5	1.0	.0	.5	.0	5.0	.5	7.5	2.5
18	8.5	4.5	3.5	.5	.0	.0	.5	.0	3.5	.0	7.0	3.0
19	8.0	4.0	2.5	.0	1.0	.0	1.0	.0	3.5	.0	5.0	1.5
20	8.0	4.0	1.0	.0	3.5	1.0	1.0	.0	4.0	.0	4.0	.5
21	8.0	3.5	3.0	.5	3.0	.5	.5	.0	5.0	.0	3.5	.0
22	7.0	3.0	4.0	2.0	.5	.0	.0	.0	5.0	.5	4.0	.0
23	6.5	2.0	4.5	2.5	.0	.0	.0	.0	5.5	2.0	6.5	.0
24	5.5	3.5	4.5	2.0	.0	.0	1.0	.0	5.0	1.0	7.5	1.0
25	5.5	2.0	4.0	.5	.0	.0	1.5	.0	5.0	1.0	8.5	1.5
26	6.5	1.5	.5	.0	.0	.0	3.0	.0	5.0	.0	6.0	4.0
27	7.0	3.0	.0	.0	.0	.0	2.0	.0	5.0	1.0	7.5	4.0
28	6.0	3.5	.5	.0	.0	.0	1.0	.0	7.0	2.0	9.0	4.5
29	6.0	3.5	.0	.0	.0	.0	1.5	.0	---	---	6.5	2.0
30	3.5	1.0	.0	.0	.5	.0	.5	.0	---	---	3.5	.5
31	3.0	.0	---	---	.0	.0	1.5	.0	---	---	7.0	.0
MONTH			6.5	.0	3.5	.0	3.0	.0	7.0	.0	9.0	.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.0	3.5	9.5	6.0	10.0	6.5	13.5	10.0	18.5	12.5	17.5	11.5
2	7.0	2.0	11.0	4.5	9.5	6.0	13.0	8.0	16.5	14.0	16.5	10.5
3	8.5	1.5	10.0	6.0	10.0	6.5	14.0	9.0	17.5	12.5	16.5	10.5
4	8.0	3.5	7.0	5.0	11.0	6.0	14.0	9.5	18.5	12.5	16.5	11.0
5	7.0	.5	7.5	3.5	10.5	6.5	13.0	10.0	18.5	12.5	16.0	12.5
6	7.5	3.0	8.0	2.5	9.5	5.5	14.0	8.5	18.5	12.5	15.5	10.0
7	5.0	1.0	8.5	3.5	10.5	5.5	14.5	9.0	17.5	13.0	13.5	11.0
8	5.0	.0	10.0	5.5	10.0	6.0	13.0	10.5	16.5	12.0	13.5	10.5
9	7.5	.5	9.0	5.5	10.5	5.5	13.0	10.5	17.5	13.0	14.5	9.5
10	9.0	1.0	9.0	5.0	10.0	6.0	15.0	9.0	16.5	12.5	15.0	11.0
11	11.0	4.5	8.0	5.0	12.0	6.5	15.0	10.5	15.0	12.0	13.0	10.0
12	9.0	6.0	6.5	4.0	11.0	7.0	16.5	10.5	14.0	12.0	13.0	9.0
13	11.5	4.5	5.0	3.0	10.0	7.0	15.0	11.0	14.5	11.5	10.5	8.0
14	11.5	5.0	8.5	4.0	10.0	6.5	15.5	11.0	18.0	12.5	9.0	7.0
15	9.0	5.0	10.5	5.0	9.5	6.5	16.0	11.0	18.5	13.0	13.0	7.5
16	9.0	3.5	10.0	6.0	12.5	6.5	16.5	10.5	18.5	14.0	13.5	8.5
17	9.5	2.0	10.5	6.0	13.0	8.0	16.0	12.0	18.5	13.0	14.0	10.5
18	9.0	3.5	11.0	6.0	11.0	8.0	17.0	12.5	18.5	13.5	13.0	9.0
19	6.0	2.5	10.5	6.5	11.5	7.0	17.5	11.5	19.0	13.5	13.0	9.0
20	3.5	.5	10.0	6.0	12.5	7.0	16.0	12.0	18.5	14.0	13.5	9.0
21	8.0	.0	11.5	5.5	11.5	7.5	17.5	12.0	19.5	14.5	14.5	9.0
22	10.5	2.5	11.0	6.5	11.0	8.0	18.5	13.5	18.0	14.5	13.5	9.0
23	9.0	4.5	12.0	7.0	11.0	7.5	19.0	13.5	17.5	12.5	15.0	10.0
24	10.5	4.5	10.0	6.0	12.5	8.0	19.0	14.0	19.0	13.5	14.0	9.5
25	9.0	5.0	10.5	5.0	12.0	8.5	18.0	12.5	15.5	12.5	12.5	10.0
26	8.0	5.0	12.0	6.0	12.5	7.5	17.5	13.5	16.5	11.0	13.5	10.0
27	8.5	5.0	11.0	6.5	13.5	8.5	17.5	13.0	17.5	12.0	11.5	9.5
28	11.0	4.0	10.0	6.0	14.0	9.0	15.0	12.5	17.5	12.5	9.5	7.5
29	8.5	5.5	9.0	5.0	13.0	9.0	17.0	11.5	16.5	12.5	8.5	6.0
30	11.0	4.0	9.0	6.0	13.5	9.5	18.0	12.0	15.5	11.5	8.5	6.5
31	---	---	11.0	5.5	---	---	18.5	12.0	16.5	11.5	---	---
MONTH	11.5	.0	12.0	2.5	14.0	5.5	19.0	8.0	19.5	11.0	17.5	6.0

09304480 COAL CREEK BELOW LITTLE BEAVER CREEK, NEAR MEEKER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°01'52", long 107°49'18", in NE¼NW¼ sec.28, T.1 N., R.93 W., Rio Blanco County, Hydrologic Unit 14050005, 1.7 mi (2.7 km) upstream from mouth, 0.1 mi (0.2 km) downstream from Little Beaver Creek, and 4.6 mi (7.4 km) east of Meeker.

PERIOD OF RECORD.--July 1978 to current year.

COOPERATION.--Chemical quality data are furnished by U.S. Bureau of Reclamation.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT										
02...	1320	11	980	1000	7.8	11.0	490	111	52	32
09...	1015	21	1150	1190	7.9	7.0	600	131	66	47
16...	1045	7.4	1200	1270	7.6	6.5	590	125	67	63
23...	1100	13	1150	1040	8.2	5.0	510	87	71	44
NOV										
02...	0940	11	1300	1250	7.9	1.0	600	103	84	58
06...	0915	11	1350	1360	8.0	3.0	670	116	91	66
13...	0845	14	1100	1030	8.0	3.0	500	88	68	46
DEC										
07...	1400	12	1250	1080	8.0	3.0	520	85	76	51
11...	1010	16	1200	1170	8.0	1.0	610	131	70	48
22...	1420	12	1560	1690	8.0	2.0	780	155	96	76
30...	1010	16	1500	1610	8.0	1.0	740	136	96	69
JAN										
08...	1430	16	1500	1400	7.8	.0	690	124	93	65
14...	1140	18	1500	1490	7.9	1.5	760	149	94	66
29...	1400	12	1450	1450	7.9	2.0	660	130	82	65
FEB										
04...	1335	18	1500	1390	7.9	.0	620	111	83	67
12...	1117	16	1340	1200	7.8	1.0	540	80	83	56
18...	1125	16	1320	1380	7.8	1.5	670	136	81	54
24...	1130	21	1200	1250	7.7	3.0	620	125	74	47
MAR										
04...	1400	35	1830	1790	7.9	5.0	880	171	109	99
11...	1140	20	1800	1920	8.0	6.0	920	176	118	108
19...	1115	18	1780	1560	8.1	3.0	710	120	100	87
26...	1115	16	1680	1650	8.1	5.0	790	143	104	84
APR										
09...	1405	14	1640	1650	8.0	7.0	790	158	96	83
16...	1530	26	880	870	8.2	9.0	400	86	44	38
23...	0930	15	950	1020	8.1	6.0	460	98	53	44
30...	1325	28	975	980	8.1	10.0	450	96	50	44
MAY										
07...	1120	21	960	970	7.9	5.5	460	101	51	38
19...	1510	39	900	880	8.1	12.5	410	90	45	35
27...	1100	47	675	680	8.0	12.5	310	70	33	24
JUN										
01...	1630	35	700	720	8.1	15.5	330	77	34	24
08...	1530	39	655	660	8.0	19.5	290	71	28	15
16...	1435	40	697	710	8.3	15.0	330	81	31	15
25...	1010	40	660	680	7.9	11.0	330	82	31	17
30...	1555	51	585	580	8.2	15.0	280	69	26	15
JUL										
07...	1700	36	675	710	8.2	17.0	350	86	34	22
13...	1010	35	600	600	7.8	15.5	300	75	28	15
22...	1240	36	610	630	8.1	20.0	310	77	29	18
28...	1505	36	659	690	8.1	13.5	340	80	33	19
AUG										
04...	1310	32	720	720	8.2	18.5	340	81	34	21
16...	1425	28	680	670	8.5	21.5	310	75	31	21
20...	0705	28	625	630	8.1	11.0	300	72	29	19
24...	1420	16	765	760	8.3	20.5	370	87	38	24
SEP										
01...	1120	16	870	860	8.2	15.0	420	97	44	25
10...	0855	32	615	610	8.0	12.0	300	76	26	15
16...	1225	14	985	1000	8.2	12.0	490	110	52	32
23...	1335	22	700	720	8.4	16.0	340	83	33	20
30...	1425	9.8	1420	1460	8.3	10.0	720	146	87	61

09304480 COAL CREEK BELOW LITTLE BEAVER CREEK, NEAR MEEKER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT									
02...	.6	3.5	293	0	309	13	664	.90	19.7
09...	.8	5.9	275	0	421	21	827	1.1	46.9
16...	1.1	10	215	0	534	29	933	1.3	18.6
23...	.9	2.7	193	0	421	19	739	1.0	24.9
NOV									
02...	1.0	3.1	212	0	525	23	901	1.2	26.8
06...	1.1	3.5	221	0	571	27	983	1.3	29.2
13...	.9	2.0	173	5	416	20	730	.99	27.6
DEC									
07...	1.0	2.3	184	0	474	22	800	1.1	25.9
11...	.9	2.3	289	0	454	21	868	1.2	37.5
22...	1.2	3.1	336	0	648	34	1176	1.6	38.1
30...	1.1	2.3	288	0	627	30	1102	1.5	47.6
JAN									
08...	1.1	2.7	281	0	605	28	1056	1.4	45.6
14...	1.0	2.3	358	0	588	30	1105	1.5	53.7
29...	1.1	2.0	297	0	484	34	942	1.3	30.5
FEB									
04...	1.2	2.0	221	0	484	30	886	1.2	43.1
12...	1.1	1.6	139	16	525	30	859	1.2	37.1
18...	.9	10	339	0	488	32	967	1.3	41.8
24...	.8	11	242	23	470	28	900	1.2	51.0
MAR									
04...	1.5	9.4	217	30	781	39	1350	1.8	128
11...	1.5	4.7	339	0	830	46	1450	2.0	78.3
19...	1.4	4.3	184	0	643	37	1080	1.5	52.5
26...	1.3	3.9	244	0	658	37	1150	1.6	49.7
APR									
09...	1.3	11	319	0	630	36	1170	1.6	44.2
16...	.8	2.7	201	0	263	16	550	.75	38.6
23...	.9	3.1	232	0	309	21	640	.87	25.9
30...	.9	3.5	227	0	289	18	610	.83	46.1
MAY									
07...	.8	2.7	261	0	272	18	610	.83	34.6
19...	.8	2.7	213	9	257	14	560	.76	59.0
27...	.6	2.3	203	0	161	11	400	.54	50.8
JUN									
01...	.6	2.3	214	0	201	12	460	.63	43.5
08...	.4	5.1	212	0	168	5.3	400	.54	42.1
16...	.4	5.5	225	8	190	5.7	450	.61	48.6
25...	.4	1.2	235	0	167	4.6	420	.57	45.4
30...	.4	.4	192	7	143	4.3	360	.49	49.6
JUL									
07...	.5	.4	195	15	197	6.0	460	.63	44.7
13...	.4	2.3	215	0	138	3.9	370	.50	35.0
22...	.4	2.3	201	0	160	5.0	390	.53	37.9
28...	.4	3.1	205	0	190	5.7	430	.58	41.8
AUG									
04...	.5	3.1	207	0	206	6.7	450	.61	38.9
16...	.5	2.0	205	0	181	6.4	420	.57	31.8
20...	.5	2.0	189	0	169	5.3	390	.53	29.5
24...	.5	2.7	235	0	216	7.1	490	.67	21.2
SEP									
01...	.5	2.7	255	0	258	8.5	560	.76	24.2
10...	.4	3.5	206	0	156	3.6	380	.52	32.8
16...	.6	3.1	270	0	320	11	660	.90	24.9
23...	.5	2.7	207	4	203	6.4	450	.61	26.7
30...	1.0	3.9	318	36	565	23	1080	1.5	28.6

09304500 WHITE RIVER NEAR MEEKER, CO

LOCATION.--Lat 40°02'01", long 107°51'42", in NE¼ sec.30, T.1 N., R.93 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 1.0 mi (1.6 km) upstream from Curtis Creek and 2.5 mi (4.0 km) east of Meeker.

DRAINAGE AREA.--755 mi^2 (1,955 km^2).

PERIOD OF RECORD.--June 1901 to December 1906, October 1909 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "at Meeker" 1901-13.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,300 ft (1,920 m), from topographic map. Prior to Oct. 31, 1906, and May 7 to Aug. 13, 1910, nonrecording gage, and Aug. 14, 1910, to Oct. 19, 1913, water-stage recorder, at site 2.5 mi (4.0 km) downstream at different datum. Oct. 20, 1913, to Sept. 30, 1971, water-stage recorder at present site, at datum 3.00 ft (0.914 m) higher prior to Oct. 1, 1933, and at datum 2.00 ft (0.610 m) higher thereafter.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Diversions above station for irrigation of about 12,000 acres (48.6 km^2) above station and about 3,000 acres (12.1 km^2) below. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--78 years, 617 ft^3/s (17.47 m^3/s), 447,000 acre-ft/yr (551 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 6,370 ft^3/s (180 m^3/s) June 16, 1921, gage height, 7.60 ft (2.316 m), present datum, from rating curve extended above 4,700 ft^3/s (130 m^3/s); minimum daily, 78 ft^3/s (2.21 m^3/s) July 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,860 ft^3/s (81.0 m^3/s) at 0400 May 28, gage height, 4.88 ft (1.487 m); only peak above base of 2,100 ft^3/s (59 m^3/s); minimum daily, 230 ft^3/s (6.51 m^3/s) Feb. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	316	357	315	318	286	314	327	935	2050	2060	500	408
2	271	360	300	304	279	348	323	1120	1960	1980	533	393
3	325	359	319	326	268	355	303	1340	1930	1750	571	382
4	369	358	288	268	230	324	320	1660	1810	1600	538	381
5	403	357	311	315	240	307	320	1320	1970	1520	503	415
6	374	354	296	318	260	293	316	1230	2080	1410	491	424
7	362	354	299	249	240	304	316	1140	1940	1240	488	383
8	374	352	297	234	290	295	290	1190	2110	1170	480	388
9	440	337	289	296	290	310	301	1250	2180	1240	507	407
10	395	326	299	363	310	359	293	1180	2180	1170	479	386
11	384	325	299	393	310	333	309	1250	1960	1040	481	425
12	424	326	293	389	310	367	412	1210	2060	986	569	454
13	416	336	296	367	330	340	416	1260	2100	906	578	504
14	411	326	293	362	340	347	459	1100	2060	904	562	508
15	419	319	302	379	340	352	511	1050	2010	853	509	512
16	519	318	303	371	320	348	502	1030	1850	795	451	531
17	433	314	289	363	308	352	483	1070	2050	751	483	495
18	401	336	234	341	279	338	511	1170	2220	749	536	455
19	384	328	312	322	272	338	518	1270	2110	706	507	444
20	378	284	319	304	287	324	485	1300	2050	644	494	453
21	372	338	326	297	287	295	444	1390	2070	469	496	442
22	364	329	303	295	303	301	449	1610	2070	442	458	436
23	353	333	278	300	316	304	504	1910	1990	549	456	446
24	357	335	260	320	306	312	498	2060	1910	434	438	435
25	364	334	260	305	300	308	608	2070	1910	611	440	429
26	354	300	308	305	285	319	681	2010	1900	461	452	468
27	363	278	325	301	308	327	689	2490	1870	644	469	487
28	348	323	308	269	314	322	668	2650	1940	688	456	517
29	362	331	302	301	---	346	764	2430	2160	673	443	526
30	392	329	326	271	---	323	760	2410	2050	567	510	554
31	355	---	319	307	---	302	---	2140	---	518	439	---
TOTAL	11782	9956	9268	9853	8208	10107	13780	47245	60550	29530	15317	13488
MEAN	380	332	299	318	293	326	459	1524	2018	953	494	450
MAX	519	360	326	393	340	367	764	2650	2220	2060	578	554
MIN	271	278	234	234	230	293	290	935	1810	434	438	381
AC-FT	23370	19750	18380	19540	16280	20050	27330	93710	120100	58570	30380	26750

CAL YR 1981 TOTAL 140672 MEAN 385 MAX 1710 MIN 141 AC-FT 279000
WTR YR 1982 TOTAL 239084 MEAN 655 MAX 2650 MIN 230 AC-FT 474200

NOTE.--NO GAGE-HEIGHT RECORD DEC. 26 TO MAR. 9.

09304550 CURTIS CREEK NEAR MEEKER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°02'22", long 107°52'53", in SE¼NW¼ sec.24, T.1 N., R.93 W., Rio Blanco County, Hydrologic Unit 14050005, 0.6 mi (1.0 km) upstream from mouth, 1.6 mi (2.6 km) east of Meeker.

PERIOD OF RECORD.--July 1978 to current year.

COOPERATION.--Chemical quality data are furnished by U.S. Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT										
02...	1300	.11	7000	6760	8.2	12.0	2800	220	543	1012
09...	1000	.13	6700	6350	8.2	6.0	2700	230	506	966
16...	1010	.55	1450	1420	7.8	5.0	490	83	68	127
23...	1030	.18	6900	6820	8.0	1.5	2500	167	500	931
NOV										
02...	0915	.11	7000	7040	8.0	.0	2700	221	514	954
06...	0850	.10	6600	6780	8.0	1.0	2600	216	499	904
13...	0830	.10	6550	6620	8.2	1.0	2400	198	475	875
DEC										
07...	1340	.11	6100	6140	8.0	1.0	2400	200	459	820
11...	0930	.10	6400	6540	8.1	.0	2500	212	490	866
22...	1440	.44	6100	6750	8.2	.0	2400	200	452	829
30...	0950	.26	6000	6850	8.0	.0	2400	207	459	832
JAN										
08...	1415	.26	6000	6180	8.2	.0	2200	121	466	869
14...	1110	.34	5000	5040	8.0	.0	1900	166	356	642
29...	1120	.18	5620	5360	8.1	1.0	2100	130	422	731
FEB										
04...	1130	.18	5400	5690	8.0	.0	2300	191	437	752
12...	1105	.11	4750	4910	7.9	.0	1700	92	361	649
18...	1110	.18	5200	5260	8.0	1.0	2100	194	382	663
24...	1115	.50	2890	3130	7.9	1.0	1100	119	188	323
MAR										
04...	1345	.44	3470	3500	8.3	8.0	1300	130	242	387
11...	1120	.34	4450	4480	8.3	8.0	1600	150	299	573
19...	1100	.44	4150	4260	8.3	4.0	1600	150	295	505
26...	1100	.48	5000	4800	8.2	6.0	1800	155	341	610
APR										
09...	1420	E1.0	4000	4270	8.3	13.5	1500	131	287	505
16...	1550	.11	4020	4180	8.4	14.5	1500	123	289	512
23...	0910	.83	4250	4310	8.2	4.5	1500	114	305	535
30...	1300	.94	4200	4040	8.5	18.5	1400	121	274	492
MAY										
07...	1110	.78	4150	4140	8.2	8.0	1500	99	297	528
19...	1540	1.8	3500	3330	8.4	12.5	1200	119	221	380
27...	1110	.78	5220	5460	8.2	17.0	2100	181	391	695
JUN										
01...	1640	.55	5000	4490	8.3	18.5	1900	157	355	624
08...	1510	.48	4550	4670	8.4	22.0	1700	112	349	527
16...	1425	.18	5810	5970	8.4	20.5	2300	148	468	731
25...	1000	.18	6000	6140	8.2	21.0	2300	173	447	826
30...	1610	.18	6100	6060	8.4	21.5	2100	104	448	847
JUL										
07...	1710	.33	6300	6160	8.4	21.5	2100	98	459	873
13...	1000	.26	6000	5960	8.2	20.0	2400	200	460	804
22...	1245	.42	6000	6060	8.4	23.5	2400	179	470	833
28...	1515	.21	5900	6100	8.3	20.5	2400	186	472	849
AUG										
04...	1250	.15	6400	6270	8.2	24.5	2500	197	484	870
16...	1435	.24	5600	5640	8.4	23.0	2300	172	442	790
20...	0720	.23	5950	6010	8.2	20.0	2400	193	455	804
24...	1410	.21	6200	6050	8.4	26.0	2300	176	459	818
SEP										
01...	1130	.20	5750	5790	8.4	17.0	2200	171	429	756
10...	0910	.26	5600	5660	8.3	13.0	2200	177	418	731
16...	1235	.40	3810	3840	8.4	13.5	1400	121	273	448
23...	1345	.23	4680	4800	8.5	21.0	1800	144	346	604
30...	1525	.86	3250	3350	8.5	12.0	1300	116	234	372

E ESTIMATED.

09304550 CURTIS CREEK NEAR MEEKER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT									
02...	8.4	31	732	0	3638	351	6160	8.4	1.8
09...	8.2	20	678	0	3365	437	5860	8.0	2.1
16...	2.5	12	137	18	521	94	990	1.4	1.5
23...	8.1	13	530	0	3557	405	5830	7.9	2.8
NOV									
02...	8.0	13	766	0	3557	422	6058	8.2	1.8
06...	7.7	12	765	0	3365	408	5780	7.9	1.6
13...	7.7	12	721	0	3146	366	5420	7.4	1.5
DEC									
07...	7.3	12	732	0	3002	280	5133	7.0	1.5
11...	7.5	12	732	0	3423	341	5704	7.8	1.5
22...	7.4	13	694	0	3263	341	5439	7.4	6.5
30...	7.4	12	756	0	3234	320	5436	7.4	3.8
JAN									
08...	8.0	14	365	60	3549	263	5521	7.5	3.9
14...	6.4	11	728	0	2437	227	4199	5.7	3.9
29...	7.0	9.0	434	49	2405	266	4225	5.8	2.1
FEB									
04...	6.9	9.4	754	0	3082	256	5098	6.9	2.5
12...	6.8	8.2	388	48	2477	220	4046	5.5	1.2
18...	6.4	9.0	732	0	2718	263	4589	6.2	2.2
24...	4.3	11	315	36	1187	167	2180	3.0	2.9
MAR									
04...	4.6	11	498	0	1364	185	2560	3.5	3.0
11...	6.2	11	558	0	1973	263	3540	4.8	3.3
19...	5.5	10	584	0	1601	217	3060	4.2	3.6
26...	6.3	10	614	0	2030	234	3680	5.0	4.8
APR									
09...	5.7	11	589	0	1700	188	3110	4.2	8.4
16...	5.8	9.8	571	0	1933	156	3300	4.5	.98
23...	5.9	12	541	0	1772	170	3170	4.3	7.1
30...	5.7	10	587	0	1619	160	2960	4.0	7.5
MAY									
07...	6.0	9.4	503	0	1687	174	3040	4.1	6.4
19...	4.8	9.0	562	0	1287	130	2420	3.3	11.8
27...	6.7	11	711	0	2344	249	4220	5.7	8.9
JUN									
01...	6.3	11	669	0	2016	202	3690	5.0	5.5
08...	5.5	15	658	0	2147	165	3640	5.0	4.7
16...	6.6	13	661	22	2971	225	4900	6.7	2.4
25...	7.5	9.4	683	0	3083	241	5120	7.0	2.5
30...	8.0	11	311	48	3050	225	4890	6.7	2.4
JUL									
07...	8.2	12	282	48	3181	229	5040	6.9	4.5
13...	7.2	13	827	0	3065	198	5150	7.0	3.6
22...	7.4	13	755	0	3185	194	5250	7.1	6.0
28...	7.5	12	575	103	3106	205	5220	7.1	3.0
AUG									
04...	7.6	16	765	0	3256	246	5450	7.4	2.2
16...	7.2	13	689	0	3404	192	5350	7.3	3.5
20...	7.2	13	656	107	3075	181	5150	7.0	3.2
24...	7.4	14	597	83	3146	215	5200	7.1	3.0
SEP									
01...	7.0	13	792	0	2835	184	4780	6.5	2.6
10...	6.8	13	816	0	2817	199	4760	6.5	3.3
16...	5.2	13	555	73	1740	127	3070	4.2	3.3
23...	6.2	15	667	0	2331	191	3960	5.4	2.5
30...	4.6	15	621	11	1406	116	2850	3.9	6.6

09304600 WHITE RIVER AT MEEKER, CO

LOCATION.--Lat 40°02'00", long 107°55'05", in NE¼NE¼ sec.27, T.1 N., R.94 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank, at 10th Street bridge, 0.4 mi (0.6 km) upstream from Flag Creek, and 0.6 mi (1.0 km) downstream from Sulphur Creek.

DRAINAGE AREA.--808 mi² (2,093 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (1,890 m), from topographic map.

REMARKS.--Records good. Diversions above station for irrigation of about 3,000 acres (12.1 km²) above station and about 12,000 acres (48.6 km²) below.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,290 ft³/s (150 m³/s) May 29, 1979, gage height, 7.13 ft (2.173 m); maximum gage height, about 12.0 ft (3.66 m) Jan. 31, 1979, ice jam; minimum daily discharge, 141 ft³/s (3.99 m³/s), Aug. 29, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,660 ft³/s (75.3 m³/s) at 0400 May 28, gage height, 6.21 ft (1.893 m); only peak above base of 2000 ft³/s (56.6 m³/s); minimum daily, 236 ft³/s (6.68 m³/s) Dec. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	330	358	326	343	289	307	330	1030	2050	2120	568	447
2	288	362	321	327	282	345	340	1240	2020	2050	574	423
3	339	362	330	352	271	351	330	1420	1970	1810	662	403
4	388	361	308	289	260	314	350	1730	1840	1620	600	404
5	418	361	324	336	250	299	350	1560	2020	1540	559	437
6	415	355	311	341	260	283	350	1400	2090	1470	535	462
7	410	354	315	264	240	292	350	1290	1970	1310	530	433
8	410	359	314	252	260	285	320	1290	2110	1210	513	411
9	405	338	306	312	260	298	350	1380	1990	1270	544	428
10	405	328	314	389	270	298	330	1470	2170	1240	508	423
11	404	327	317	419	270	299	340	1400	2000	1080	509	484
12	431	327	309	408	280	340	340	1330	2110	1040	582	509
13	424	336	313	388	280	321	560	1390	2060	938	615	557
14	418	326	308	382	290	322	510	1250	2110	880	601	570
15	441	320	316	397	290	335	560	1160	2060	886	554	565
16	554	320	316	392	300	334	570	1090	1910	828	477	584
17	445	315	307	381	306	375	540	1150	2020	801	501	548
18	411	338	263	356	275	330	576	1230	1930	791	568	513
19	390	333	328	330	268	330	588	1400	2090	765	539	496
20	384	294	338	308	280	316	546	1440	2090	731	516	503
21	374	342	342	301	281	292	516	1440	1940	722	516	491
22	368	331	318	302	298	300	522	1640	2110	692	487	474
23	353	336	301	306	311	300	576	1910	1990	655	470	487
24	357	340	236	324	299	320	607	2120	1940	646	459	482
25	372	339	313	308	292	320	705	2030	1940	700	453	470
26	356	311	340	309	277	330	780	2090	1940	656	472	507
27	366	299	360	305	302	340	788	2440	1910	677	479	538
28	355	348	335	270	307	330	764	2540	1940	749	480	568
29	364	357	329	303	---	340	868	2380	2020	758	456	581
30	399	342	359	272	---	350	844	2270	2090	638	469	600
31	358	---	348	309	---	320	---	2120	---	585	470	---
TOTAL	12132	10119	9865	10275	7848	9916	15500	49630	60430	31858	16266	14798
MEAN	391	337	318	331	280	320	517	1601	2014	1028	525	493
MAX	554	362	360	419	311	375	868	2540	2170	2120	662	600
MIN	288	294	236	252	240	283	320	1030	1840	585	453	403
AC-FT	24060	20070	19570	20380	15570	19670	30740	98440	119900	63190	32260	29350

CAL YR 1981 TOTAL 147102 MEAN 403 MAX 1770 MIN 141 AC-FT 291800
WTR YR 1982 TOTAL 248637 MEAN 681 MAX 2540 MIN 236 AC-FT 493200

09304600 WHITE RIVER AT MEEKER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1978 to current year.
WATER TEMPERATURES: October 1978 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1978.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

COOPERATION.--Chemical quality data are furnished by the U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 810 micromhos Nov. 29, 1979; minimum, 189 micromhos May 29, 1982.
WATER TEMPERATURES: Maximum, 23.0°C July 21, 28, 30, 1980; minimum, 0.0°C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 676 micromhos Mar. 2; minimum, 189 micromhos May 29.
WATER TEMPERATURES: Maximum, 20.5°C on a few days in July and August; minimum, 0.0°C on days during October to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT										
02...	1100	288	570	590	--	10.0	240	69	17	26
09...	0935	480	530	540	.0	7.0	240	70	16	20
16...	1200	576	600	525	7.9	6.0	270	72	21	20
23...	1336	365	510	428	8.5	6.0	220	65	14	21
NOV										
02...	1030	365	500	417	8.2	2.0	210	61	14	21
06...	1020	360	525	449	8.3	3.0	230	63	17	22
13...	0920	350	500	449	8.1	2.0	230	67	14	20
DEC										
07...	1440	276	525	471	8.5	2.0	240	69	17	23
11...	1030	316	530	449	8.2	1.0	240	69	15	22
22...	1340	308	540	514	8.5	.0	240	68	17	23
30...	1100	308	525	445	8.1	.0	230	68	15	21
JAN										
08...	1515	232	600	589	8.1	.0	270	77	19	30
14...	1415	380	490	487	8.0	.0	230	67	15	20
29...	1445	296	500	482	8.0	.0	210	65	12	20
FEB										
04...	1420	E260	550	543	8.0	.0	230	70	14	24
12...	1515	E280	525	511	7.9	.0	230	69	13	21
18...	1410	244	530	522	8.0	1.0	220	67	13	23
24...	1410	292	572	545	8.1	--	250	70	19	26
MAR										
04...	1430	304	620	595	8.3	6.0	270	74	22	29
11...	1405	300	615	591	8.4	6.0	260	70	21	28
19...	1345	330	605	564	8.3	4.0	270	74	20	22
26...	1340	330	565	533	8.3	5.0	260	71	19	20
APR										
09...	1325	308	580	580	8.2	7.0	250	70	19	22
16...	1350	570	450	450	8.5	9.0	200	58	13	13
23...	1015	582	440	450	8.5	6.0	200	58	13	13
30...	1120	844	375	380	8.5	7.0	170	50	11	11
MAY										
07...	1100	1300	300	320	8.1	5.5	150	44	10	8.7
19...	1435	1380	320	320	8.5	9.5	150	43	10	8.7
27...	1030	2500	255	250	8.1	8.0	130	37	8.0	6.7
JUN										
01...	1555	2050	270	270	8.3	10.5	130	37	9.0	4.4
08...	1500	2120	265	270	8.3	10.5	120	36	8.0	6.7
16...	1415	1900	273	280	8.5	11.5	130	37	8.0	5.5
25...	0945	2000	261	--	8.1	10.0	--	--	--	--
30...	1510	2120	240	240	8.4	13.5	110	32	8.0	4.6
JUL										
07...	1620	1290	308	350	8.6	15.0	160	43	13	15
13...	0945	960	360	360	8.1	12.0	170	48	12	8.7
22...	1145	705	395	400	8.7	16.5	180	52	12	9.9
28...	1440	756	370	390	8.4	--	180	52	12	9.9
AUG										
04...	1500	628	435	440	8.8	19.0	200	58	14	11
16...	1355	510	449	460	8.8	18.0	210	60	15	14
20...	0635	546	440	450	8.1	16.0	200	57	14	13
24...	1455	468	440	430	9.0	20.0	200	55	14	15
SEP										
01...	1040	474	467	510	8.6	14.0	230	60	18	20
10...	0825	426	500	500	8.2	12.0	220	64	15	15
16...	1150	594	442	450	8.6	10.5	210	60	14	13
23...	1305	480	451	470	8.9	15.5	210	61	14	12
30...	1405	570	440	440	8.7	9.0	200	57	13	11

09304600 WHITE RIVER AT MEEKER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT									
02...	.7	2.3	150	8	116	32	343	.47	267
09...	.6	2.0	134	12	107	22	314	.43	407
16...	.5	3.1	159	0	148	22	364	.50	566
23...	.6	1.6	132	3	106	25	299	.41	295
NOV									
02...	.6	1.2	129	5	115	24	306	.42	302
06...	.6	1.2	128	4	121	25	314	.43	305
13...	.6	.8	154	0	115	24	317	.43	300
DEC									
07...	.6	1.6	128	12	139	27	350	.48	261
11...	.6	1.2	149	0	103	25	309	.42	264
22...	.7	1.2	128	11	103	25	311	.42	259
30...	.6	1.2	125	12	101	25	305	.41	254
JAN									
08...	.8	1.6	160	6	155	33	399	.54	250
14...	.6	1.2	133	7	106	21	302	.41	310
29...	.6	.8	94	23	111	23	301	.41	241
FEB									
04...	.7	1.2	154	0	111	32	328	.45	239
12...	.6	.8	134	9	104	23	305	.41	206
18...	.7	1.2	133	6	131	28	334	.45	220
24...	.7	2.7	142	4	139	32	360	.49	284
MAR									
04...	.8	3.9	143	6	150	36	390	.53	320
11...	.7	1.6	143	6	169	32	400	.54	324
19...	.6	2.0	131	13	144	23	360	.49	321
26...	.5	1.6	129	12	133	23	340	.46	303
APR									
09...	.6	2.0	122	16	137	21	350	.48	291
16...	.4	1.2	117	10	105	11	270	.37	416
23...	.4	2.0	142	0	106	11	270	.37	424
30...	.4	2.3	129	1	97	5.7	240	.33	547
MAY									
07...	.3	1.2	129	0	52	6.4	190	.26	667
19...	.3	1.2	114	7	54	6.4	190	.26	708
27...	.3	1.2	116	0	29	3.6	140	.19	945
JUN									
01...	.2	1.2	118	0	33	5.7	150	.20	830
08...	.3	2.0	126	0	34	2.8	150	.20	859
16...	.2	2.3	126	0	38	3.6	160	.22	--
25...	--	--	--	--	--	--	--	--	--
30...	.2	.8	108	0	32	2.8	130	.18	744
JUL									
07...	.5	.8	129	2	65	5.7	210	.29	731
13...	.3	2.3	144	0	60	5.3	210	.29	544
22...	.3	2.0	139	5	69	6.4	220	.30	419
28...	.3	2.7	148	0	71	6.4	230	.31	469
AUG									
04...	.3	2.7	143	5	85	8.9	260	.35	441
16...	.4	2.0	153	7	93	9.9	280	.38	386
20...	.4	2.0	158	0	86	9.2	260	.35	383
24...	.5	2.0	137	9	101	11	280	.38	354
SEP									
01...	.6	2.3	147	11	108	13	300	.41	384
10...	.4	2.7	175	0	101	12	300	.41	345
16...	.4	2.7	151	5	92	8.9	270	.37	433
23...	.4	2.3	142	6	97	9.6	270	.37	350
30...	.3	2.3	139	3	90	8.9	250	.34	385

09304600 WHITE RIVER AT MEEKER, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	592	535	549	511	542	637	575	322	230	261	---	467
2	583	540	557	506	549	660	565	328	210	258	433	475
3	585	540	545	515	570	658	575	320	213	266	430	479
4	572	550	575	529	596	644	570	301	223	273	418	480
5	556	582	570	551	637	638	560	300	224	278	448	478
6	541	591	576	508	591	625	565	---	229	290	475	478
7	528	591	570	571	591	620	559	---	242	300	457	482
8	564	578	565	597	561	613	565	---	249	315	472	481
9	543	569	579	561	538	613	577	---	253	323	488	468
10	549	572	580	524	520	624	566	---	264	322	444	467
11	560	559	570	531	514	625	557	---	277	328	436	478
12	546	570	540	525	525	635	534	320	280	330	424	470
13	531	567	580	520	523	602	528	354	279	336	419	472
14	530	544	563	522	513	595	516	368	279	338	428	468
15	558	547	560	539	511	594	499	351	278	342	426	471
16	576	538	568	526	506	592	450	343	282	343	442	453
17	554	549	607	535	527	595	456	337	269	349	438	462
18	547	551	584	525	541	623	454	325	258	354	444	461
19	531	545	540	504	550	601	442	310	258	356	452	469
20	543	569	540	519	551	586	443	290	257	363	424	462
21	542	597	551	536	563	593	456	293	259	369	418	458
22	541	572	565	536	566	599	466	277	262	381	429	467
23	537	577	618	542	572	589	456	237	267	385	438	449
24	530	585	580	520	584	579	440	247	271	387	437	455
25	540	623	536	524	605	576	421	220	269	400	447	465
26	555	595	505	510	613	570	403	234	270	400	454	460
27	545	588	525	508	613	585	396	230	272	400	443	445
28	542	617	534	539	629	588	403	225	268	---	440	440
29	554	584	475	522	---	577	390	200	261	---	447	440
30	561	569	480	537	---	569	381	240	260	---	451	450
31	555	---	505	538	---	581	---	268	---	---	465	---
MEAN	551	570	555	530	561	606	492	290	257	335	442	465

WTR YR 1982 MEAN 475 MAX 660 MIN 200

09304600 WHITE RIVER AT MEEKER, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.0	10.0	4.5	.5	.5	.0	.5	.0	1.0	.0	4.5	2.0
2	11.5	9.5	5.5	1.5	.5	.0	.5	.0	.5	.0	7.0	3.5
3	12.0	9.5	6.0	2.0	1.0	.0	.5	.0	.5	.0	5.0	2.5
4	10.5	9.0	6.0	2.5	1.0	.0	.5	.0	.5	.0	6.0	1.0
5	11.0	8.0	6.0	2.5	2.5	.0	.5	.0	.5	.0	4.5	1.5
6	12.0	6.5	6.5	2.5	2.5	.0	.5	.0	.5	.0	5.0	.0
7	12.5	7.5	7.0	5.0	2.5	.0	.5	.0	1.0	.0	4.0	1.5
8	10.5	9.0	6.5	3.0	2.0	.0	.5	.0	.0	.0	4.5	.5
9	10.0	7.0	5.5	2.0	2.0	.0	.5	.0	1.0	.0	7.0	1.5
10	11.0	6.5	5.0	1.5	2.0	.0	.5	.0	.5	.0	6.0	3.0
11	9.5	8.0	5.0	.0	3.0	.0	.5	.0	.0	.0	7.5	3.5
12	9.5	6.5	5.0	1.0	2.5	.0	.5	.0	.0	.0	8.0	4.0
13	10.0	7.0	5.5	2.0	2.5	.0	.5	.0	.5	.0	8.5	1.5
14	11.0	8.0	6.0	4.0	2.5	.0	.5	.0	.5	.0	7.0	3.5
15	9.0	6.5	6.5	4.0	2.0	.0	.5	.0	.5	.0	7.0	4.5
16	8.0	6.0	7.0	3.5	1.5	.0	.5	.0	.5	.0	8.0	4.0
17	8.0	6.0	7.0	3.0	.5	.0	.5	.0	3.5	.0	8.0	3.0
18	9.5	5.0	5.0	.5	1.0	.0	.5	.0	3.0	.0	7.5	3.5
19	9.0	4.5	1.5	.0	3.5	.5	.5	.0	3.5	.0	6.0	2.0
20	9.0	4.5	3.0	.0	3.5	.0	.5	.0	4.5	.0	4.5	.0
21	8.5	4.5	1.0	.0	1.0	.0	.5	.0	5.5	.5	4.5	.0
22	8.0	4.0	3.0	1.5	.5	.0	.5	.0	5.5	.5	4.5	.0
23	7.5	3.0	4.5	2.5	.5	.0	.5	.0	5.5	2.5	7.0	.0
24	6.5	5.0	4.5	1.5	.5	.0	1.0	.0	5.0	.5	8.5	1.5
25	6.5	2.5	4.0	2.5	.5	.0	1.5	.0	5.5	.5	9.0	2.0
26	7.0	2.5	2.5	.0	.5	.0	2.5	.0	4.5	.0	7.0	4.5
27	8.0	4.0	.5	.0	.5	.0	2.0	.0	5.0	1.0	8.0	4.0
28	7.0	4.0	.5	.0	.5	.0	1.0	.0	7.5	2.0	10.0	5.0
29	6.5	5.0	.5	.0	.5	.0	1.0	.0	---	---	7.5	3.5
30	5.0	2.0	.5	.0	.5	.0	.5	.0	---	---	4.0	.5
31	4.0	.0	---	---	.5	.0	1.0	.0	---	---	8.0	.0
MONTH	14.0	.0	7.0	.0	3.5	.0	2.5	.0	7.5	.0	10.0	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.5	4.0	10.5	7.0	10.5	7.5	14.0	11.0	20.5	13.5	19.0	13.0
2	7.0	2.0	11.0	6.0	10.0	6.5	14.0	9.5	18.0	15.0	18.0	12.0
3	9.0	2.0	10.5	6.5	10.5	7.0	14.5	10.0	19.0	13.0	15.5	10.5
4	8.5	4.0	9.0	6.0	11.5	7.0	15.0	10.5	19.0	13.5	15.0	10.0
5	8.0	1.0	8.0	4.0	11.0	7.5	13.5	11.0	19.5	14.0	14.5	10.0
6	8.0	4.0	9.0	3.5	10.0	6.5	15.0	9.0	20.0	14.0	15.0	10.0
7	6.0	2.5	8.5	4.5	11.0	6.5	15.0	10.0	18.5	14.5	15.0	12.5
8	6.0	.0	10.5	6.5	10.5	7.0	13.5	11.0	15.5	14.0	14.5	11.5
9	8.0	1.0	9.5	6.0	11.5	6.5	14.0	11.0	18.5	14.5	15.0	10.5
10	9.5	1.5	9.5	6.0	11.0	7.0	16.0	10.0	18.0	14.0	15.0	10.0
11	11.0	5.5	8.5	6.0	13.0	7.5	16.0	11.5	16.5	13.5	14.5	12.0
12	10.0	7.5	7.5	4.5	11.5	8.0	17.0	11.5	15.5	13.5	13.5	10.5
13	11.5	5.0	6.0	3.5	11.0	8.0	16.0	12.0	14.5	12.5	---	---
14	12.0	6.0	9.0	4.5	10.5	7.5	17.0	11.5	18.0	13.5	---	---
15	10.0	5.5	10.5	5.5	10.5	7.5	17.5	11.5	19.0	14.5	---	---
16	9.0	4.0	10.0	7.0	13.5	7.5	17.5	11.0	19.0	15.0	15.0	9.0
17	10.0	3.0	11.5	7.0	13.5	9.5	16.5	13.0	18.5	15.0	15.0	10.5
18	10.0	4.5	12.0	7.0	12.0	9.0	18.5	13.0	20.5	14.5	14.5	9.0
19	6.5	3.0	10.5	8.0	12.5	8.0	19.0	12.5	20.5	14.5	13.0	9.0
20	4.5	1.0	11.0	7.0	13.0	8.0	17.5	12.5	19.5	15.0	14.5	9.0
21	8.0	.0	12.0	6.5	12.0	8.0	19.0	13.0	20.5	15.5	14.5	9.5
22	11.0	3.0	11.5	7.5	11.5	9.0	20.5	14.5	20.5	16.0	14.0	9.5
23	9.5	5.5	13.0	8.0	11.5	8.5	20.5	14.5	19.0	14.5	16.5	10.0
24	11.0	5.0	10.5	7.0	13.5	8.5	20.5	15.0	20.0	14.5	15.5	9.5
25	10.0	6.5	11.0	6.0	12.5	9.5	19.0	13.5	17.5	14.0	13.0	10.0
26	8.5	6.0	12.5	7.0	13.0	8.5	19.0	14.5	17.5	12.5	14.0	10.5
27	9.0	6.0	11.5	7.5	14.5	9.5	18.5	14.0	18.5	13.5	12.5	9.5
28	11.5	5.0	10.5	7.0	14.5	10.5	17.5	13.5	18.0	13.5	9.0	7.0
29	10.0	6.5	9.5	7.0	14.0	10.0	18.0	12.5	17.5	14.0	8.5	6.0
30	11.5	5.0	9.0	7.0	14.5	10.5	19.0	13.0	17.5	13.0	9.0	6.5
31	---	---	11.5	6.0	---	---	20.0	13.0	17.0	12.5	---	---
MONTH	12.0	.0	13.0	3.5	14.5	6.5	20.5	9.0	20.5	12.5	19.0	6.0

09304800 WHITE RIVER BELOW MEEKER, CO

LOCATION.--Lat 40°00'48", long 108°05'33", in center of sec.31, T.1 N., R.95 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 30 ft (9 m) downstream from county bridge, 4.5 mi (7.2 km) downstream from Strawberry Creek, and 10 mi (16 km) west of Meeker.

DRAINAGE AREA.--1,024 mi^2 (2,652 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,928 ft (1,807 m), from topographic map.

REMARKS.--Records good. Diversion above station for irrigation of about 22,000 acres (89.0 km^2) above station and a few small hay meadows below.

AVERAGE DISCHARGE.--21 years, 614 ft^3/s (17.39 m^3/s), 444,800 acre-ft/yr (548 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,750 ft^3/s (135 m^3/s) June 17, 1978, gage height, 4.46 ft (1.359 m); minimum daily, 85 ft^3/s (2.41 m^3/s) June 28, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (57 m^3/s) and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft^3/s)	(m^3/s)	(ft)	(m)			(ft^3/s)	(m^3/s)	(ft)	(m)
May 28	1100	* 2,680	75.9	3.34	1.018	July 1	1400	2,140	60.6	3.10	0.945
June 18	0700	2,220	62.9	3.12	0.951						

Minimum daily discharge, 212 ft^3/s (6.0 m^3/s) Jan. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	370	350	341	299	385	377	1010	1910	1980	617	445
2	308	380	340	336	285	442	367	1200	1870	1900	653	422
3	335	380	365	322	314	448	332	1400	1780	1680	759	407
4	415	385	335	254	237	389	362	1720	1790	1590	676	411
5	485	381	340	305	248	347	357	1640	1810	1510	607	533
6	421	376	313	352	294	331	367	1400	1960	1460	552	497
7	386	371	326	412	250	321	362	1270	1730	1290	546	430
8	396	371	322	212	300	306	323	1250	1910	1190	547	430
9	479	356	313	243	270	342	343	1360	1780	1260	597	435
10	416	341	327	373	350	341	338	1440	1930	1240	556	435
11	407	336	322	388	320	345	358	1380	1760	1120	563	518
12	444	337	314	378	300	389	452	1340	1670	1090	634	547
13	432	347	314	354	335	352	494	1420	2020	1010	656	623
14	427	337	314	329	380	361	518	1270	2030	1000	657	616
15	433	332	323	349	380	375	590	1170	1980	952	595	608
16	616	332	323	359	390	374	597	1120	1670	857	517	615
17	475	328	315	370	380	382	562	1140	1870	843	536	572
18	428	353	280	355	380	366	597	1210	2030	828	626	520
19	403	353	311	350	380	355	619	1370	1890	801	564	520
20	393	319	354	336	380	340	570	1430	1930	760	527	519
21	383	358	364	347	380	299	531	1410	1750	747	533	507
22	378	348	334	311	380	294	531	1590	1920	720	510	494
23	363	353	302	269	380	326	598	1810	1830	693	499	500
24	359	359	245	360	370	341	627	1890	1710	666	494	493
25	379	359	273	350	365	322	725	1740	1770	730	494	487
26	364	334	330	360	360	346	870	1930	1540	689	519	528
27	369	320	330	315	390	361	816	2370	1660	697	520	573
28	354	359	317	296	390	356	795	2550	1310	782	501	607
29	364	349	299	333	---	381	886	2410	2080	864	477	628
30	420	349	336	289	---	366	854	2370	1920	714	482	641
31	375	---	351	325	---	309	---	2140	---	645	476	---
TOTAL	12507	10573	9982	10273	9487	10992	16118	48750	54810	32308	17490	15561
MEAN	403	352	322	331	339	355	537	1573	1827	1042	564	519
MAX	616	385	365	412	390	448	886	2550	2080	1980	759	641
MIN	300	319	245	212	237	294	323	1010	1310	645	476	407
AC-FT	24810	20970	19800	20380	18820	21800	31970	96700	108700	64080	34690	30870

CAL YR 1981 TOTAL 156817 MEAN 430 MAX 1810 MIN 204 AC-FT 311000
WTR YR 1982 TOTAL 248851 MEAN 682 MAX 2550 MIN 212 AC-FT 493600

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1978 to current year.
WATER TEMPERATURES: July 1978 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1978.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

COOPERATION.--Additional chemical quality data are furnished by the U.S. Bureau of Reclamation (noted by an asterisk in the water year heading).

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maxmum, 908 micromhos Aug. 30, 1981; minimum, 221 micromhos June 13, 1980.
WATER TEMPERATURES: Maximum, 25.0°C Aug. 7, 1978, Aug. 7, 1980; minimum, 0.0°C many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 729 micromhos Mar. 3; minimum, not determined.
WATER TEMPERATURES: Maximum, 21.5°C Aug. 6-7; minimum, 0.0°C many days during November to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT											
02...	1215	269	640	622	8.1	10.5	9.1	280	77	22	29
28...	1045	360	560	520	8.0	5.5	10.4	260	71	20	32
DEC											
07...	1245	312	550	593	8.3	2.0	12.8	260	71	19	26
JAN											
20...	1400	335	580	590	8.2	.0	12.2	240	68	18	26
FEB											
17...	0930	380	565	597	7.9	.0	11.2	240	68	18	28
MAR											
23...	1040	335	630	530	8.1	4.0	11.0	280	76	22	27
APR											
23...	1100	606	475	449	8.4	8.0	10.2	220	62	16	19
JUN											
09...	1325	2120	295	304	8.3	10.5	9.4	140	39	11	9.5
AUG											
04...	1620	669	480	486	9.0	20.0	9.3	230	62	18	17
SEP											
22...	0935	496	525	525	8.3	11.5	9.1	230	65	17	16

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT										
02...	.8	1.4	160	150	23	.2	14	413	.56	300
28...	.9	1.6	140	140	24	.2	14	387	.53	376
DEC										
07...	.8	1.3	140	130	20	.2	14	366	.50	308
JAN										
20...	.8	1.3	130	140	20	.3	16	368	.50	333
FEB										
17...	.8	2.7	130	140	17	.2	15	367	.50	377
MAR										
23...	.8	1.4	150	170	17	.2	15	419	.57	379
APR										
23...	.6	1.6	130	110	16	.2	13	316	.43	517
JUN										
09...	.4	1.0	105	40	3.7	.2	12	180	.24	1030
AUG										
04...	.5	1.3	159	99	9.3	.2	17	319	.43	576
SEP										
22...	.5	1.2	145	110	10	--	14	321	.44	430

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
OCT										
02...	.13	.130	.56	.69	.82	.020	20	10	--	--
28...	<.09	.060	.32	.38	--	.030	20	17	1.1	.5
DEC										
07...	<.10	.080	.20	.28	--	.060	20	<10	--	--
JAN										
20...	<.09	.170	.42	.59	--	.050	20	<10	--	--
FEB										
17...	<.18	.180	.92	1.10	1.3	.170	20	18	4.1	.5
MAR										
23...	<.10	.110	.51	.62	--	.020	30	6	--	--
APR										
23...	<.10	.070	.63	.70	--	.050	20	13	--	--
JUN										
09...	.10	.060	.84	.90	1.0	.070	10	35	3.8	--
AUG										
04...	.12	.100	.70	.80	.92	.070	30	29	--	--
SEP										
22...	<.10	<.060	--	.50	--	.020	30	18	3.4	.4

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)
OCT									
02...	1215	--	--	--	--	20	--	--	--
28...	1045	200	1	100	<10	20	<1	<10	<1
DEC									
07...	1245	--	--	--	--	20	--	--	--
JAN									
20...	1400	--	--	--	--	20	--	--	--
FEB									
17...	0930	--	--	--	--	20	--	--	--
MAR									
23...	1040	--	--	--	--	30	--	--	--
APR									
23...	1100	--	--	--	--	20	--	--	--
JUN									
09...	1325	950	1	<100	<10	10	<1	<10	7
AUG									
04...	1620	--	--	--	--	30	--	--	--
SEP									
22...	0935	--	--	--	--	30	--	--	--

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
OCT									
02...	--	--	--	--	--	--	--	--	--
28...	4	1	10	30	.0	2	<1	1	20
DEC									
07...	--	--	--	--	--	--	--	--	--
JAN									
20...	--	--	--	--	--	--	--	--	--
FEB									
17...	--	--	--	--	--	--	--	--	--
MAR									
23...	--	--	--	--	--	--	--	--	--
APR									
23...	--	--	--	--	--	--	--	--	--
JUN									
09...	6	3	<10	50	<.1	1	8	1	10
AUG									
04...	--	--	--	--	--	--	--	--	--
SEP									
22...	--	--	--	--	--	--	--	--	--

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)
OCT				
28...	1045	1.1	.5	>.01
FEB				
17...	0930	4.1	.5	--
JUN				
09...	1325	3.8	--	<.01
SEP				
22...	0935	3.4	.4	--

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT				
02...	1030	269	19	14
28...	1045	360	14	14
DEC				
07...	1245	312	15	13
JAN				
20...	1400	335	16	14
FEB				
17...	0930	380	28	29
MAR				
23...	1040	335	25	23
APR				
23...	1100	606	48	79
30...	1050	878	109	258
MAY				
07...	1040	1310	68	241
14...	1330	1360	164	602
MAY				
19...	1400	1400	145	548
27...	1000	2510	478	3240
JUN				
01...	1525	2110	116	661
08...	1530	2100	134	760
16...	1345	1860	67	336
25...	0925	1920	68	353
30...	1430	2020	95	518
JUL				
07...	1600	1310	34	120
13...	0915	999	87	235
22...	1105	732	70	138
28...	1410	830	120	269
SEP				
22...	0935	496	20	27

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982 *

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT									
02...	1030	269	660	680	--	10.0	280	77	22
09...	0900	496	640	660	8.0	7.5	290	78	22
16...	1230	627	620	612	7.9	7.0	290	75	25
23...	1300	370	560	482	8.3	7.0	230	61	19
NOV									
02...	1100	385	600	503	8.0	2.0	240	61	20
06...	1100	380	670	525	8.1	4.0	250	64	22
13...	0945	886	575	482	8.1	3.0	240	61	20
DEC									
07...	1500	321	580	503	8.4	2.5	250	68	20
11...	1100	321	500	482	8.2	1.5	240	63	20
22...	1315	340	570	536	8.5	1.5	240	66	19
30...	1120	326	575	508	8.1	.0	260	71	19
JAN									
08...	1545	228	635	634	8.3	.0	290	80	22
14...	1435	321	580	541	8.1	.0	250	69	19
29...	1515	333	550	536	8.1	1.0	230	68	15
FEB									
04...	1500	180	595	563	8.2	.0	240	70	15
12...	1535	E300	590	558	8.1	.0	250	70	19
18...	1440	E380	530	554	8.0	1.0	230	67	15
24...	1435	E370	642	606	8.0	5.0	270	71	22
MAR									
04...	1500	375	705	657	8.3	6.0	300	78	25
11...	1445	335	700	647	8.4	7.0	280	72	25
19...	1410	362	660	624	8.3	5.0	280	76	23
26...	1400	350	610	582	8.4	6.0	270	74	21
APR									
09...	1300	365	580	600	8.4	7.5	250	60	23
16...	1315	613	490	490	8.5	8.5	210	60	15
23...	1050	606	475	500	8.4	8.0	220	63	15
30...	1050	878	405	410	8.3	7.0	180	53	12
MAY									
07...	1030	1310	330	340	8.0	6.0	150	45	10
19...	1405	1400	340	350	8.3	10.5	160	45	11
27...	1000	2510	270	290	8.0	10.0	140	41	9.0
JUN									
01...	1535	2110	295	290	8.2	11.0	140	40	9.0
08...	1530	2100	300	280	8.2	11.0	120	33	9.0
16...	1340	1860	310	320	8.4	11.5	140	40	10
25...	0915	1920	309	--	8.1	11.0	--	--	--
30...	1430	2020	280	280	8.2	13.5	130	36	9.0
JUL									
07...	1550	1310	360	390	8.6	15.0	170	47	13
13...	0900	999	429	430	8.1	13.5	200	55	15
22...	1055	732	465	470	8.4	17.0	220	59	17
28...	1410	830	450	470	8.2	16.5	210	57	17
AUG									
04...	1545	669	495	510	8.8	20.0	230	64	18
16...	1325	520	535	530	8.7	19.5	240	65	19
20...	0610	550	510	510	8.1	17.0	230	61	18
24...	1330	502	515	520	8.7	19.0	230	63	18
SEP									
01...	1010	454	562	560	8.3	14.0	250	66	20
10...	0800	442	580	590	8.2	13.0	270	71	21
16...	1120	648	548	560	8.3	12.0	250	67	19
23...	1235	502	518	530	8.5	16.0	240	65	18
30...	1330	599	510	530	8.4	10.0	230	61	18

E ESTIMATED.

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT								
02...	33	.9	2.0	142	31	405	.55	294
09...	30	.8	2.7	149	24	401	.55	537
16...	31	.8	4.7	165	25	417	.57	706
23...	25	.7	1.6	128	24	333	.45	333
NOV								
02...	28	.8	1.6	142	26	353	.48	367
06...	30	.8	1.6	153	26	370	.50	380
13...	25	.7	.8	137	26	339	.46	811
DEC								
07...	28	.8	1.2	149	25	369	.50	320
11...	28	.8	1.2	163	25	360	.49	312
22...	26	.7	1.2	114	27	326	.44	299
30...	26	.7	1.2	122	26	346	.47	305
JAN								
08...	33	.8	1.6	197	31	457	.62	281
14...	26	.7	1.2	134	23	352	.48	305
29...	24	.7	.8	105	23	312	.42	281
FEB								
04...	28	.8	1.2	122	21	332	.45	161
12...	26	.7	1.2	159	23	377	.51	262
18...	28	.8	2.0	156	24	367	.50	568
24...	34	.9	6.3	143	27	390	.53	400
MAR								
04...	35	.9	5.1	178	34	440	.60	445
11...	34	.9	1.6	175	28	420	.57	380
19...	29	.7	1.6	165	27	400	.54	391
26...	24	.6	2.3	144	25	370	.50	350
APR								
09...	30	.8	2.3	163	19	360	.49	355
16...	18	.5	9.0	114	11	300	.41	497
23...	19	.5	2.3	113	12	300	.41	491
30...	14	.5	3.1	97	11	260	.35	616
MAY								
07...	8.7	.3	1.2	59	5.7	190	.26	672
19...	8.7	.3	1.2	63	3.6	200	.27	756
27...	5.5	.2	1.2	36	3.6	160	.22	1080
JUN								
01...	6.7	.2	1.2	40	5.0	160	.22	912
08...	6.7	.3	3.5	41	3.2	160	.22	907
16...	7.6	.3	3.5	47	3.9	180	.24	904
25...	--	--	--	--	--	--	--	--
30...	6.7	.3	.8	42	3.2	150	.20	818
JUL								
07...	13	.4	.0	69	6.0	220	.30	778
13...	14	.4	2.3	77	6.4	250	.34	674
22...	17	.5	2.3	88	7.5	280	.38	553
28...	15	.5	2.3	90	7.5	270	.37	605
AUG								
04...	15	.4	2.7	103	8.9	300	.41	542
16...	21	.6	2.3	110	11	320	.44	449
20...	19	.5	2.3	100	9.6	300	.41	445
24...	20	.6	2.0	105	11	310	.42	420
SEP								
01...	21	.6	2.3	120	12	340	.46	417
10...	21	.6	2.7	126	13	350	.48	418
16...	20	.6	3.1	121	10	330	.45	577
23...	18	.5	2.0	114	11	330	.45	447
30...	19	.5	2.0	115	9.6	310	.42	501

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	555	559	550	690	615	361	285	299	470	545
2	668	601	570	559	561	713	596	310	284	302	470	---
3	674	627	609	577	570	722	605	283	294	315	504	---
4	668	635	595	592	597	707	597	291	301	329	485	---
5	690	639	590	595	633	703	580	302	289	341	495	---
6	621	630	578	571	665	694	611	325	279	355	500	---
7	595	630	580	589	680	688	600	337	296	365	480	---
8	596	616	580	636	630	681	603	345	292	382	481	---
9	604	623	579	636	600	683	643	339	298	395	475	---
10	571	625	580	605	595	694	624	338	301	388	489	---
11	560	614	590	571	574	706	612	327	312	400	516	---
12	569	610	575	559	578	717	587	349	308	407	543	---
13	556	609	573	562	582	700	582	345	302	423	533	---
14	551	594	571	567	570	683	550	337	298	421	520	---
15	552	595	570	566	558	672	500	343	302	418	523	---
16	594	586	562	556	564	676	475	368	316	420	525	526
17	---	585	559	552	570	665	486	361	306	424	525	519
18	---	576	575	547	574	680	480	344	297	409	510	524
19	---	573	592	549	598	690	465	345	302	403	500	532
20	---	605	560	572	612	673	472	340	303	425	500	535
21	---	610	563	568	616	666	485	---	302	430	495	529
22	---	575	559	570	619	671	490	---	304	445	510	528
23	---	590	584	580	622	653	475	---	310	470	525	---
24	---	620	629	584	639	635	462	---	317	465	505	---
25	---	620	641	569	663	631	445	---	310	460	536	---
26	---	590	602	580	669	637	407	---	309	475	543	---
27	---	618	588	570	675	661	405	---	302	475	532	---
28	---	600	583	542	680	671	418	---	296	485	523	---
29	---	575	598	562	---	655	400	---	286	470	528	---
30	---	550	574	554	---	618	395	---	285	460	526	---
31	---	---	558	567	---	622	---	262	---	465	536	---
MEAN		604	581	573	609	676	522		300	410	510	

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	.0	.0	.0	.0	.0	.0	5.0	2.5
2	12.5	10.0	5.0	2.0	.0	.0	.0	.0	.0	.0	7.5	3.5
3	13.0	10.0	6.0	2.0	.5	.0	.0	.0	.0	.0	5.5	3.0
4	11.0	9.5	6.5	2.5	.5	.0	.0	.0	.0	.0	6.0	1.0
5	11.0	8.5	6.0	2.5	2.0	.0	.0	.0	.0	.0	5.0	2.0
6	12.5	7.0	6.5	3.0	2.5	.0	.0	.0	.0	.0	5.0	.5
7	13.0	8.5	7.0	4.5	2.5	.0	.0	.0	.0	.0	4.0	1.5
8	11.0	9.0	6.5	3.5	2.5	.0	.0	.0	.0	.0	4.5	1.0
9	10.5	7.5	6.0	2.5	2.5	.0	.0	.0	.0	.0	7.0	1.5
10	11.5	7.5	5.0	2.0	3.0	.5	.0	.0	.0	.0	6.5	3.5
11	10.0	8.0	5.0	1.5	4.0	.5	.0	.0	.0	.0	7.0	3.5
12	10.0	6.5	5.0	1.5	3.0	.5	.0	.0	.0	.0	8.5	4.5
13	10.5	7.0	6.0	2.5	2.5	1.0	.0	.0	.0	.0	8.5	2.5
14	10.5	8.0	6.0	4.0	1.5	.5	.0	.0	.0	.0	7.5	3.5
15	9.5	7.5	7.0	4.5	3.5	1.0	.0	.0	.0	.0	8.0	5.0
16	---	---	7.0	4.0	1.5	.0	.0	.0	.0	.0	7.5	4.5
17	---	---	5.5	3.0	.5	.0	.0	.0	.0	.0	8.5	3.0
18	---	---	4.0	1.0	.0	.0	.0	.0	1.0	.0	9.0	4.0
19	---	---	2.5	.0	1.0	.0	.0	.0	.0	.0	6.0	1.5
20	---	---	.5	.0	4.0	.5	.0	.0	.0	.0	4.5	.5
21	---	---	2.0	.0	3.0	.5	.0	.0	.0	.0	3.5	.0
22	---	---	4.0	1.5	1.5	.0	.0	.0	.0	.0	5.5	.0
23	---	---	5.0	3.0	.0	.0	.0	.0	4.0	.0	7.0	.5
24	---	---	5.5	2.5	.0	.0	.0	.0	5.0	1.0	8.0	2.0
25	---	---	4.0	1.0	.0	.0	.0	.0	6.0	1.0	9.0	3.0
26	---	---	1.0	.0	.0	.0	.0	.0	4.0	1.0	6.5	5.0
27	---	---	.0	.0	.0	.0	.0	.0	5.5	2.0	8.0	5.0
28	---	---	.0	.0	.0	.0	.0	.0	7.5	2.5	9.5	5.0
29	---	---	.0	.0	.0	.0	1.0	.0	---	---	6.5	2.0
30	---	---	.0	.0	.0	.0	.0	.0	---	---	4.5	1.0
31	---	---	---	---	.0	.0	.0	.0	---	---	7.5	.5
MONTH			7.0	.0	4.0	.0	1.0	.0	7.5	.0	9.5	.0

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.5	4.5	10.5	8.5	11.0	9.0	15.5	12.5	20.5	15.0	14.5	10.0
2	7.5	2.5	10.5	7.5	11.0	8.0	14.5	11.0	18.5	16.0	18.0	12.0
3	8.5	2.5	10.0	8.0	12.0	8.5	15.5	11.0	19.0	14.0	15.0	11.5
4	9.0	4.0	9.5	6.0	12.0	8.0	15.5	11.5	20.0	15.0	---	---
5	7.5	1.5	8.0	4.5	11.5	8.5	14.0	11.0	21.0	15.0	---	---
6	7.5	4.0	8.5	4.5	10.5	8.0	15.5	10.0	21.5	15.5	---	---
7	5.5	2.0	8.5	5.5	11.5	7.5	16.0	11.0	21.5	15.5	---	---
8	5.5	.0	10.5	7.0	11.0	8.5	15.0	12.5	18.5	15.5	---	---
9	8.0	1.5	9.5	7.5	11.5	8.0	15.0	11.5	20.5	15.5	---	---
10	9.0	2.0	9.5	7.0	11.0	8.5	17.0	11.0	19.5	15.5	---	---
11	12.0	5.5	8.5	6.5	13.5	9.0	17.0	13.0	17.5	14.5	---	---
12	10.0	7.0	7.0	4.5	12.0	9.5	18.0	12.5	16.5	14.0	---	---
13	11.0	5.5	6.0	4.0	12.0	9.0	16.0	13.5	15.5	13.5	---	---
14	12.0	6.5	8.5	4.5	11.5	8.5	18.0	12.5	19.5	14.0	---	---
15	10.5	6.5	10.0	6.5	11.0	9.0	18.0	13.0	20.5	15.0	---	---
16	9.5	5.0	11.0	8.5	14.0	8.5	18.0	12.5	20.0	16.0	14.5	11.5
17	10.0	3.5	12.0	8.0	14.5	10.5	17.5	14.0	19.0	16.0	15.5	12.0
18	10.5	5.5	12.0	8.5	13.0	10.5	19.0	13.5	20.5	16.5	14.5	10.5
19	6.5	3.0	11.0	9.0	13.0	9.5	19.5	14.0	21.0	15.5	13.5	10.5
20	5.0	1.5	10.5	8.0	14.0	10.0	20.0	14.0	20.0	16.0	14.5	10.5
21	7.5	.0	---	---	12.5	10.0	19.0	14.0	21.0	16.5	15.0	11.0
22	10.5	3.5	---	---	11.5	10.5	20.5	14.5	20.5	17.5	---	---
23	10.0	6.0	---	---	12.5	9.5	21.0	16.0	20.0	15.5	---	---
24	12.0	6.0	---	---	14.5	9.5	20.5	16.5	20.5	13.5	---	---
25	12.0	7.5	---	---	13.0	11.0	18.5	16.0	15.0	10.0	---	---
26	9.5	7.0	---	---	14.0	9.5	19.5	17.5	15.0	10.0	---	---
27	10.0	6.5	---	---	15.5	10.5	19.5	15.5	14.5	10.0	---	---
28	12.0	6.0	---	---	16.0	12.0	18.0	15.0	15.0	10.0	---	---
29	10.0	7.5	---	---	15.0	12.0	17.5	13.5	13.5	10.5	---	---
30	11.0	5.5	---	---	15.0	12.5	20.0	14.5	14.5	10.0	---	---
31	---	---	12.0	7.0	---	---	20.5	14.5	15.0	10.0	---	---
MONTH	12.0	.0			16.0	7.5	21.0	10.0	21.5	10.0		

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO

LOCATION.--Lat 39°49'34", long 108°10'57", in SE¼SE¼ sec.32, T.2 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 20 ft (6 m) downstream from private bridge, 1,100 ft (340 m) upstream from Stewart Gulch, and 14.3 mi (23.0 km) west of Rio Blanco.

DRAINAGE AREA.--177 mi^2 (458 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,366 ft (1,940 m), from topographic map.

REMARKS.--Records good. Several diversions above station for irrigation of hay meadows.

AVERAGE DISCHARGE.--8 years, 11.8 ft^3/s (0.334 m^3/s), 8,550 acre-ft/yr (10.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 520 ft^3/s (14.7 m^3/s) July 19, 1977, gage height, 7.01 ft (2.137 m), from rating based on indirect measurement; minimum daily, 0.47 ft^3/s (0.013 m^3/s) Apr. 25, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 133 ft^3/s (3.77 m^3/s) at 1830 Aug. 12, gage height, 4.25 ft (1.295 m); only peak above base of 100 ft^3/s (2.8 m^3/s); minimum daily, 1.3 ft^3/s (0.037 m^3/s) July 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	6.3	7.1	6.1	5.9	8.2	11	5.5	7.4	3.1	4.2	10
2	3.3	5.8	7.1	5.5	6.0	10	11	6.2	7.0	2.8	6.4	10
3	4.2	5.7	6.8	5.3	5.8	16	9.9	9.5	7.1	1.5	6.1	9.8
4	4.2	5.4	6.7	5.3	5.8	13	9.9	16	4.8	1.3	7.9	9.7
5	5.1	4.9	6.6	5.3	5.8	12	9.3	20	4.0	1.6	8.9	10
6	4.8	5.6	6.6	5.3	5.8	9.5	10	16	7.4	2.2	10	13
7	4.7	7.0	6.8	5.3	5.8	10	9.5	10	6.5	2.8	11	12
8	4.7	7.3	6.8	5.3	5.8	9.6	8.6	8.4	5.7	3.9	11	12
9	4.2	7.0	6.8	5.3	5.8	9.1	8.6	6.9	6.5	4.9	11	12
10	4.8	6.5	6.7	5.3	5.8	9.2	8.8	7.3	6.7	4.9	13	12
11	4.9	8.5	6.5	5.4	5.8	8.8	9.3	7.2	7.8	5.6	16	13
12	5.1	9.0	6.6	5.3	5.7	13	9.5	11	7.7	5.8	29	13
13	5.4	9.0	6.8	5.4	5.7	15	9.6	21	7.2	5.7	16	13
14	5.7	9.1	6.7	5.4	5.6	18	8.3	24	8.9	6.0	13	14
15	6.2	9.1	6.7	5.4	5.7	22	11	18	7.8	7.0	12	13
16	6.8	8.7	6.8	5.4	5.8	18	12	15	6.7	6.1	12	12
17	5.5	8.6	6.4	5.6	6.1	13	8.9	13	6.3	5.0	12	12
18	5.6	9.0	6.5	5.6	6.3	14	8.7	12	4.8	4.7	15	12
19	5.2	8.9	6.6	5.7	6.6	13	7.6	15	3.4	4.3	12	12
20	5.1	9.0	6.8	5.8	7.6	12	6.8	16	5.5	5.1	12	12
21	5.2	8.7	7.1	5.8	9.1	9.9	5.6	14	5.4	4.2	11	12
22	5.4	8.7	6.6	5.8	11	9.4	4.8	14	4.3	3.9	12	12
23	5.8	8.6	6.5	5.8	12	8.4	4.7	13	4.1	3.4	12	11
24	5.8	8.4	6.5	5.9	8.9	8.1	5.2	11	3.1	3.6	11	10
25	4.9	8.4	6.3	5.6	8.7	7.7	5.3	9.2	2.5	4.1	11	11
26	5.0	7.8	6.3	5.8	8.5	8.3	4.2	12	2.7	4.7	12	12
27	4.7	7.6	6.3	5.7	8.4	8.7	2.8	16	2.5	5.4	11	12
28	4.6	7.6	6.2	5.9	8.2	9.3	2.4	8.8	2.2	5.3	11	12
29	5.2	7.4	6.2	5.9	---	11	1.9	7.0	2.7	4.7	11	13
30	6.8	7.4	6.2	5.8	---	9.3	3.4	9.4	2.4	4.3	11	13
31	6.3	---	6.1	5.8	---	8.6	---	9.5	---	4.0	11	---
TOTAL	158.4	231.0	204.7	172.8	194.0	352.1	228.6	381.9	161.1	131.9	362.5	354.5
MEAN	5.11	7.70	6.60	5.57	6.93	11.4	7.62	12.3	5.37	4.25	11.7	11.8
MAX	6.8	9.1	7.1	6.1	12	22	12	24	8.9	7.0	29	14
MIN	3.2	4.9	6.1	5.3	5.6	7.7	1.9	5.5	2.2	1.3	4.2	9.7
AC-FT	314	458	406	343	385	698	453	757	320	262	719	703

CAL YR 1981 TOTAL 2273.88 MEAN 6.23 MAX 18 MIN .47 AC-FT 4510
WTR YR 1982 TOTAL 2933.50 MEAN 8.04 MAX 29 MIN 1.3 AC-FT 5820

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1974 to current year.
pH: December 1974 to current year.
WATER TEMPERATURE: December 1974 to current year.
DISSOLVED OXYGEN: December 1974 to current year.
SUSPENDED SEDIMENT DISCHARGE: April 1974 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler since April 1974. Water-quality monitor since December 1974.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,690 micromhos June 21, 1976; freezing, 344 micromhos Apr. 13, 1976.
pH: Maximum, 9.0 units June 21, 1976; minimum, 7.0 units May 24, 1976.
WATER TEMPERATURES: Maximum, 29.5°C July 25, 1977; minimum, freezing point on many days during winter months each year.
DISSOLVED OXYGEN: Maximum, 15.7 mg/L Oct. 8, 1975; minimum, 5.1 mg/L July 17, 1979.
SEDIMENT CONCENTRATIONS: Maximum daily, 20,300 mg/L July 20, 1974; minimum daily, 6 mg/L several days during September 1976.
SEDIMENT LOADS: Maximum daily, 4,580 tons (4,150 t) July 20, 1974; minimum daily, 0.02 ton (0.02 t) Apr. 20, 1981.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,400 micromhos July 28; minimum, 622 micromhos Feb. 22
pH: Maximum 8.7 units several days from April to September; minimum, 7.7 units June 26 and November.
WATER TEMPERATURES: Maximum, 24.0 June 28, July 23, 31; minimum, freezing point on many days November to April.
DISSOLVED OXYGEN: Maximum, 12.8 mg/L April 30; minimum, 5.2 mg/L Aug. 5.
SEDIMENT CONCENTRATIONS: Maximum daily, 4,309 mg/L Aug. 12; minimum daily, 11 mg/L Oct. 18.
SEDIMENT LOADS: Maximum daily, 828 tons (751 t) Aug. 12; minimum daily, 0.2 ton (0.18 t) Oct. 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 19...	1015	5.4	1200	1090	8.0	7.0	9.8	--	30	K48	K4
NOV 24...	1010	8.3	1090	1100	8.2	5.0	10.8	1.8	--	--	--
DEC 30...	0930	6.2	1080	1070	8.1	1.0	10.0	.99	--	--	--
MAR 24...	0930	7.7	1000	1030	8.1	4.0	10.9	.87	--	--	--
MAY 19...	1000	17	1120	1120	8.2	11.0	8.8	1.2	32	--	--
JUN 09...	1000	7.4	1200	1250	8.2	11.0	9.2	--	--	--	--
SEP 21...	1535	12	1020	1000	8.6	16.5	8.7	2.1	--	--	--

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT 19...	700	420	75	55	160	3.5	3.5	480	.3	210	10
NOV 24...	--	380	72	48	130	3.0	2.2	420	--	170	14
DEC 30...	--	350	65	45	120	2.9	2.2	420	--	150	17
MAR 24...	--	340	66	43	110	2.7	2.3	370	--	160	11
MAY 19...	--	380	77	46	120	2.7	4.2	430	<.5	180	11
JUN 09...	--	400	76	51	140	3.1	3.3	495	--	180	14
SEP 21...	--	330	62	42	110	2.7	2.3	326	--	160	13

K BASED ON NON-IDEAL COLONY COUNT.

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	BROMIDE DISSOLVED (MG/L AS BR)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT 19...	1.0	.00	17	822	1.1	12.0	<.09	<.060	--	.30	.010
NOV 24...	.9	--	15	707	.96	15.8	.42	.210	1.2	1.4	.030
DEC 30...	1.0	--	16	671	.91	11.2	.40	.140	.45	.59	.080
MAR 24...	1.0	--	15	634	.86	13.2	.40	.130	.34	.47	.070
MAY 19...	.8	.03	17	718	.97	33.0	.40	.150	.68	.83	.150
JUN 09...	.9	--	15	780	1.1	15.6	<.10	.060	.64	.70	.020
SEP 21...	.4	--	15	603	.82	19.5	.22	.280	1.6	1.9	.030

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)
OCT 19...	10	2	100	220	<1	0	2	17	3	16
NOV 24...	--	2	--	210	--	--	--	11	--	--
DEC 30...	--	2	--	200	--	--	--	11	--	--
MAR 24...	--	3	--	210	--	--	--	7	--	--
MAY 19...	10	3	110	180	<3	<10	4	12	2	19
JUN 09...	--	2	--	220	--	--	--	29	--	--
SEP 21...	--	3	--	220	--	--	--	7	--	--

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)
OCT 19...	200	.0	20	0	1700	12	--	<20	<.4	<9.4
NOV 24...	85	--	--	--	--	--	--	--	--	--
DEC 30...	59	--	--	--	--	--	--	--	--	--
MAR 24...	62	--	--	--	1400	--	--	--	--	--
MAY 19...	130	<.1	8	1	1400	<12	5.6	<19	8.2	13
JUN 09...	210	--	--	--	1600	--	--	--	--	--
SEP 21...	42	--	--	--	1300	--	--	--	--	--

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)
OCT										
19...	.4	<9.0	.4	.07	3.2	7.0	.2	>.01	--	0
NOV										
24...	--	--	--	--	--	4.2	.4	--	1	--
DEC										
30...	--	--	--	--	--	4.2	1.0	--	--	--
MAR										
24...	--	--	--	--	--	6.9	1.2	--	1	--
MAY										
19...	6.4	12	6.2	.07	3.5	6.3	2.6	<.01	<1	<0
JUN										
09...	--	--	--	--	--	7.0	.5	--	1	--
SEP										
21...	--	--	--	--	--	4.4	.4	--	<1	--

DATE	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	PCN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-AZINON, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
OCT										
19...	.00	0	.0	.0	.0	.0	.2	.0	.0	.1

DATE	ENDO-SULFAN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ETHION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA-THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI-THION, TOT. IN BOTTOM MATL. (UG/KG)
OCT										
19...	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

DATE	MIREX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	PARA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	PER-THANE IN BOTTOM MATERIL (UG/KG)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TRI-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2,4-D, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2,4-DP, IN BOTTOM MAT. (UG/KG)	2,4,5-T TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SILVEX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
OCT									
19...	.0	.0	.00	.0	.0	.0	.0	.0	.0

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
01...	1500	3.3	6	.05
15...	0900	5.7	27	.42
19...	1015	5.4	16	.23
NOV				
02...	1025	5.1	67	.92
17...	0925	8.3	29	.65
24...	1010	8.3	46	1.0
DEC				
16...	1535	6.8	33	.61
30...	0930	6.2	90	1.5
JAN				
20...	0925	5.7	47	.72
FEB				
19...	1755	6.8	256	4.7

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAR				
24...	0930	7.7	117	2.4
MAY				
05...	0950	22	950	56
19...	1000	17	213	9.8
JUN				
09...	1000	7.4	100	2.0
09...	1425	8.6	116	2.7
JUL				
06...	1110	2.7	59	.43
AUG				
17...	1230	11	227	6.7
19...	1155	12	522	17
SEP				
21...	1535	12	165	5.3

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1240	1210	1110	1070	1090	1050	980	1060	1200	1240	1320	1040
2	1250	1220	1100	1080	1100	1050	984	1060	1190	1260	1320	1040
3	1230	1240	1100	1090	1150	946	986	999	1200	1290	1290	1040
4	1240	1230	1100	1100	1180	978	983	882	1230	1270	1270	1050
5	1230	1230	1100	1070	1170	1020	985	869	1230	1270	1290	1040
6	1230	1240	1100	1090	1140	1050	977	942	1180	1300	1280	979
7	1220	1200	1100	---	1080	1040	966	1020	1200	1300	1200	1030
8	1210	1200	1100	1140	1120	1040	997	1090	1230	1270	1180	1030
9	1250	1200	1100	1130	1070	1030	986	1150	1230	1260	1170	999
10	1220	1210	1100	1100	1080	1010	987	1140	1220	1280	1100	1030
11	1210	1180	1090	1080	1090	1020	989	1150	1220	1290	1010	1000
12	1210	1140	1090	1080	1080	980	974	1080	1230	1280	---	999
13	1210	1130	1090	1090	1070	945	952	966	1230	1280	---	1020
14	1210	1130	1090	1090	1070	905	964	1080	1210	1270	---	983
15	1200	1120	1090	1100	1060	856	897	1060	1230	1260	1090	1010
16	1210	1120	1080	1100	1060	892	872	1080	1230	1270	1090	1020
17	1230	1130	1080	1090	1060	941	882	1120	1230	1280	1040	1030
18	1230	1110	1110	1090	---	967	905	1130	1240	1240	1000	1030
19	1230	1120	1090	1090	---	983	922	1110	1290	1260	1050	1030
20	1230	1110	1090	1090	988	989	982	1090	1280	1260	1060	1020
21	1230	1110	1060	---	905	998	1050	1110	1280	1270	1060	1020
22	1230	1110	1080	---	832	998	1070	1120	1320	1290	1060	1020
23	1220	1100	1120	---	858	998	1100	1130	1300	1300	1020	1020
24	1200	1100	1160	---	959	995	1100	1150	1290	1300	1060	1020
25	1200	1090	1080	1080	1010	997	1120	1180	1320	1310	1060	1020
26	1190	1110	1110	1080	1030	988	1160	1120	1320	1330	1060	1010
27	1190	1110	1090	1100	1030	980	1220	1110	1300	1340	1060	1000
28	1190	1100	1150	1080	1050	980	1240	1220	1290	1330	1050	1010
29	1190	1100	1080	1100	---	964	1250	1230	1270	1340	1040	997
30	1180	1100	1050	1090	---	986	1180	1200	1260	1330	1030	990
31	1200	---	1060	1080	---	997	---	1190	---	1320	1030	---
MEAN	1220	1150	1100	1090	1050	986	1020	1090	1250	1290	1120	1020

WTR YR 1982 MEAN 1120 MAX 1340 MIN 832

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.2	7.9	8.1	7.9	8.4	8.2	8.6	8.5	8.6	8.5	8.4	8.3
2	8.0	7.8	8.1	7.8	8.4	8.2	8.6	8.5	8.6	8.4	8.5	8.3
3	8.1	7.8	8.1	7.8	8.4	8.2	8.5	8.4	8.5	8.4	8.3	8.2
4	8.0	7.8	8.1	7.8	8.4	8.2	8.5	8.4	8.4	8.3	8.4	8.3
5	8.1	7.8	8.1	7.8	8.4	8.2	8.6	8.5	8.4	8.3	8.4	8.3
6	8.2	7.9	8.1	7.8	8.4	8.2	8.6	8.5	8.4	8.3	8.5	8.3
7	8.2	7.9	8.2	7.9	8.4	8.2	---	---	8.4	8.3	8.5	8.3
8	8.1	7.8	8.2	7.9	8.4	8.2	8.4	8.3	8.5	8.4	8.4	8.3
9	8.2	7.8	8.2	7.9	8.4	8.2	8.4	8.3	8.5	8.4	8.4	8.3
10	8.2	7.9	8.2	7.9	8.4	8.2	8.5	8.3	8.5	8.4	8.4	8.3
11	8.1	7.9	8.3	7.9	8.4	8.2	8.5	8.4	8.6	8.5	8.4	8.3
12	8.2	7.9	8.3	8.0	8.4	8.2	8.5	8.4	8.6	8.5	8.4	8.3
13	8.3	7.9	8.4	8.1	8.4	8.2	8.5	8.5	8.6	8.5	8.5	8.3
14	8.2	7.9	8.4	8.1	8.4	8.3	8.6	8.4	8.6	8.5	8.4	8.3
15	8.2	7.9	8.4	8.1	8.4	8.3	8.5	8.4	8.6	8.5	8.4	8.3
16	8.2	7.9	8.4	8.1	8.4	8.2	8.6	8.5	8.6	8.5	8.5	8.3
17	8.2	7.9	8.5	8.1	8.4	8.3	8.6	8.5	8.6	8.5	8.5	8.3
18	8.2	7.9	8.4	8.2	8.4	8.2	8.6	8.5	---	---	8.5	8.4
19	8.2	7.9	8.4	8.2	8.4	8.3	8.6	8.5	---	---	8.4	8.4
20	8.2	7.9	8.4	8.2	8.5	8.3	8.6	8.5	8.6	8.4	8.5	8.4
21	8.2	7.9	8.4	8.2	8.4	8.3	---	---	8.6	8.3	8.5	8.4
22	8.2	7.9	8.5	8.2	8.5	8.3	---	---	8.5	8.2	8.5	8.4
23	8.2	7.9	8.4	8.2	8.5	8.3	---	---	8.4	8.2	8.5	8.4
24	8.2	7.9	8.5	8.2	8.4	8.3	---	---	8.5	8.3	8.5	8.1
25	8.2	7.9	8.4	8.2	8.4	8.3	8.6	8.5	8.5	8.4	8.5	8.3
26	8.3	7.9	8.4	8.2	8.4	8.3	8.6	8.5	8.5	8.4	8.4	8.4
27	8.3	7.9	8.4	8.2	8.4	8.4	8.6	8.5	8.5	8.3	8.5	8.3
28	8.3	7.9	8.4	8.2	8.4	8.4	8.6	8.5	8.5	8.3	8.5	8.4
29	8.3	7.8	8.4	8.2	8.4	8.3	8.6	8.5	---	---	8.4	8.4
30	8.2	7.9	8.4	8.2	8.5	8.1	8.6	8.5	---	---	8.4	8.4
31	8.1	7.9	---	---	8.5	8.4	8.6	8.5	---	---	8.5	8.3
MONTH	8.3	7.8	8.5	7.8	8.5	8.1	8.6	8.3	8.6	8.2	8.5	8.1

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.5	8.4	8.5	8.2	8.4	8.0	8.3	8.0	8.4	8.0	8.7	8.2
2	8.5	8.4	8.7	8.2	8.4	8.0	8.4	7.8	8.3	8.0	8.7	8.2
3	8.5	8.4	8.6	8.3	8.5	8.0	8.3	7.9	8.5	7.9	8.7	8.2
4	8.5	8.4	8.3	8.2	8.4	8.0	8.3	7.9	8.5	8.0	8.6	8.2
5	8.5	8.3	8.5	8.2	8.4	7.9	8.2	7.9	8.6	8.1	8.6	8.2
6	8.4	8.3	8.5	8.3	8.4	8.0	8.2	7.9	8.5	8.1	8.4	8.0
7	8.4	8.3	8.5	8.2	8.3	8.0	8.1	7.8	8.5	8.2	8.5	8.2
8	8.4	8.3	8.5	8.1	8.3	8.0	8.2	7.9	8.5	8.2	8.5	8.2
9	8.5	8.3	8.5	8.1	8.4	7.9	8.2	7.9	8.6	8.1	8.4	8.2
10	8.5	8.3	8.3	8.1	8.3	7.9	8.2	7.9	8.4	8.0	8.5	8.2
11	8.5	8.3	8.2	8.0	8.4	7.9	8.2	7.9	8.3	8.1	8.3	8.2
12	8.4	8.3	8.2	8.0	8.3	7.9	8.2	7.9	---	---	8.5	8.1
13	8.6	8.3	8.3	8.2	8.4	7.9	8.2	7.9	---	---	8.3	8.1
14	8.5	8.4	8.3	8.2	8.3	7.9	8.2	7.9	---	---	8.2	8.0
15	8.5	8.3	8.3	8.2	8.2	7.8	8.3	8.0	8.4	8.2	8.5	8.0
16	8.5	8.3	8.4	8.2	8.4	7.9	8.3	7.9	8.4	8.2	8.5	8.1
17	8.6	8.3	8.4	8.0	8.3	7.9	8.3	8.0	8.5	8.1	8.5	8.2
18	8.5	8.3	8.3	8.0	8.1	7.8	8.4	8.0	8.4	8.2	8.4	8.1
19	8.5	8.2	8.3	8.0	8.2	7.8	8.4	8.1	8.5	8.2	8.4	8.1
20	8.4	8.2	8.4	8.2	8.2	7.9	8.4	8.1	8.5	8.3	8.5	8.1
21	8.5	8.1	8.4	8.2	8.1	7.9	8.4	8.0	8.5	8.3	8.6	8.1
22	8.5	8.2	8.4	8.1	8.1	7.9	8.3	7.9	8.4	8.3	8.5	8.1
23	8.4	8.2	8.5	8.1	8.4	7.9	8.4	7.9	8.5	8.2	8.6	8.2
24	8.5	8.2	8.5	8.0	8.2	7.8	8.4	8.0	8.6	8.3	8.5	8.1
25	8.5	8.2	8.5	8.0	8.2	7.8	8.4	7.9	8.5	8.3	8.4	8.1
26	8.5	8.1	8.5	8.0	8.3	7.7	8.3	7.9	8.5	8.2	8.5	8.2
27	8.6	8.0	8.4	8.0	8.3	7.9	8.4	7.9	8.5	8.2	8.4	8.2
28	8.7	8.1	8.2	8.0	8.3	7.9	8.3	7.9	8.6	8.2	8.3	8.0
29	8.7	8.1	8.3	7.9	8.3	7.9	8.4	7.9	8.6	8.2	8.3	8.0
30	8.6	8.1	8.2	8.0	8.3	7.9	8.5	7.9	8.6	8.2	8.3	8.0
31	---	---	8.4	7.9	---	---	8.4	8.0	8.7	8.2	---	---
MONTH	8.7	8.0	8.7	7.9	8.5	7.7	8.5	7.8	8.7	7.9	8.7	8.0
YEAR	8.7	7.7										

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	15.0	7.0	8.5	2.5	.5	.0	4.0	.0	1.5	.0	7.0	1.5
2	12.0	9.5	9.5	3.5	3.5	.0	.0	.0	.5	.0	10.5	4.5
3	13.5	10.0	9.5	3.5	3.5	.0	.0	.0	.0	.0	6.0	2.5
4	11.0	9.0	10.0	3.5	4.0	.0	.0	.0	.0	.0	7.5	1.0
5	12.0	8.5	8.5	3.5	5.0	2.0	2.0	.0	.0	.0	6.5	1.5
6	14.0	7.0	9.0	4.0	4.5	.5	1.0	.0	.0	.0	7.0	.0
7	14.0	7.5	9.0	6.0	5.0	1.0	---	---	.0	.0	9.5	1.5
8	10.5	9.5	8.0	4.0	5.0	1.0	.0	.0	.0	.0	7.0	1.0
9	12.5	8.0	8.5	3.0	4.5	.5	.0	.0	.5	.0	8.5	1.0
10	13.0	7.5	8.0	2.5	5.5	1.5	.0	.0	.5	.0	7.5	2.5
11	10.5	8.0	8.0	2.5	5.5	2.0	.5	.0	.5	.0	8.5	3.5
12	12.0	7.0	7.5	2.5	5.0	1.5	.5	.0	.5	.0	9.5	3.5
13	12.5	7.0	8.5	4.0	4.0	2.5	.5	.0	5.0	.0	11.5	.5
14	11.5	8.0	8.5	5.0	4.0	1.0	1.0	.0	6.0	2.0	8.0	1.5
15	9.5	7.0	9.0	5.0	5.0	2.5	.5	.0	5.5	2.0	8.0	3.5
16	10.0	6.0	8.5	4.0	3.0	.0	3.0	.0	7.5	1.5	9.0	3.0
17	11.5	7.0	7.5	3.5	2.0	.0	3.5	.5	6.5	.0	12.5	2.0
18	12.5	5.5	5.5	3.5	.5	.0	4.0	.5	---	---	10.5	3.0
19	12.0	5.0	5.0	1.5	5.0	.5	3.5	.0	---	---	6.0	2.0
20	11.5	5.0	5.0	.5	5.5	2.5	3.0	.0	8.0	.0	7.5	1.0
21	11.5	5.0	5.5	2.0	4.0	2.0	---	---	8.5	.5	5.5	.0
22	10.5	4.5	7.0	3.5	2.5	.0	---	---	8.0	.0	8.5	.0
23	10.0	4.0	7.5	4.5	.0	.0	---	---	7.5	2.5	12.0	.0
24	7.0	5.5	7.5	3.5	.0	.0	---	---	8.0	.5	12.5	.5
25	10.0	5.0	5.0	1.0	.5	.0	5.0	1.0	9.0	1.5	13.5	1.0
26	10.0	4.5	1.5	.0	.5	.0	4.5	.0	9.0	.0	7.5	4.5
27	10.5	5.5	3.0	.0	.5	.0	3.5	.0	8.0	2.0	10.5	4.5
28	9.5	5.5	3.5	.0	.0	.0	3.5	.0	10.5	.5	12.5	4.0
29	9.5	4.5	3.0	1.0	.5	.0	.5	.0	---	---	6.5	3.0
30	6.5	3.5	3.0	.5	3.0	.0	2.5	.0	---	---	5.5	.5
31	7.0	1.5	---	---	2.5	.0	3.0	.0	---	---	12.5	.0
MONTH	15.0	1.5	10.0	.0	5.5	.0	5.0	.0	10.5	.0	13.5	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.5	4.0	15.0	6.5	16.5	7.0	22.5	8.5	23.5	10.5	20.5	10.0
2	9.5	1.0	17.0	6.0	17.0	6.0	22.5	8.0	18.0	13.0	19.5	9.0
3	13.5	1.0	17.5	4.0	19.0	7.5	23.5	8.0	21.0	11.5	19.5	9.0
4	12.0	3.0	11.5	7.5	20.0	6.5	23.5	9.0	23.0	11.0	17.5	10.0
5	11.5	.0	14.0	4.5	19.5	5.5	17.5	7.5	23.5	12.5	17.5	12.0
6	10.0	3.5	16.0	2.0	19.0	6.0	22.5	11.0	23.0	12.0	17.0	9.5
7	5.0	.5	13.0	3.0	19.5	6.0	20.0	8.0	20.5	12.0	15.5	10.0
8	8.0	.0	16.0	6.5	19.0	6.0	18.5	10.0	20.0	12.0	15.5	10.0
9	12.5	.0	16.0	5.5	21.0	6.0	19.5	10.0	21.5	12.5	14.5	9.5
10	14.5	.5	14.0	5.0	17.5	6.5	22.5	9.0	19.5	10.5	15.5	10.5
11	14.5	4.0	12.5	5.5	22.5	7.5	22.0	10.5	18.0	12.0	13.0	10.0
12	12.0	3.5	6.5	2.0	18.0	9.0	22.5	10.5	---	---	14.5	9.0
13	17.0	4.5	11.5	2.5	18.5	9.0	20.0	11.0	---	---	10.0	8.5
14	16.0	4.0	14.0	5.5	16.0	8.0	20.0	10.0	---	---	10.5	7.0
15	11.5	4.0	14.5	4.5	17.0	8.0	21.5	10.0	21.5	12.0	16.0	7.5
16	13.0	2.5	17.5	5.5	23.0	8.0	22.0	9.5	19.0	12.5	16.0	8.5
17	15.0	1.0	16.5	6.0	22.0	10.0	21.5	12.0	18.5	12.0	16.0	10.0
18	11.0	2.5	17.0	6.5	17.5	10.0	21.0	11.5	20.0	12.0	14.5	8.5
19	10.5	1.0	13.5	7.0	20.0	7.5	23.5	11.0	21.0	12.0	15.0	8.5
20	8.0	.0	18.0	6.5	20.5	8.0	21.5	12.0	19.5	12.5	16.0	9.0
21	14.5	.0	20.5	5.0	16.0	9.0	22.5	12.0	20.0	10.5	17.0	9.0
22	17.0	1.0	17.0	6.0	16.5	9.5	23.0	13.5	17.0	13.0	17.5	8.5
23	12.5	4.0	20.0	7.0	19.5	9.0	24.0	12.0	18.5	11.0	18.0	9.5
24	18.0	3.5	18.5	7.0	20.5	9.0	23.0	12.5	21.0	12.5	16.5	8.0
25	15.5	4.5	19.0	5.5	19.5	9.0	22.5	11.5	16.0	12.0	13.0	9.5
26	15.5	5.0	22.0	6.5	22.0	8.0	21.0	12.5	19.0	11.0	15.0	11.0
27	16.5	5.5	20.5	8.0	24.0	9.0	20.5	13.0	17.5	11.0	12.0	9.0
28	21.5	3.5	15.0	7.5	24.0	9.0	18.0	12.5	19.0	10.5	9.0	7.5
29	17.0	6.0	17.5	6.0	23.5	9.0	21.0	12.5	18.5	11.5	10.0	6.5
30	17.0	2.5	13.5	7.5	23.0	11.0	23.0	11.0	20.0	11.0	11.5	7.5
31	---	---	20.5	6.5	---	---	24.0	10.5	18.0	10.5	---	---
MONTH	21.5	.0	22.0	2.0	24.0	5.5	24.0	7.5	23.5	10.5	20.5	6.5
YEAR	24.0	.0										

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10.5	6.8	12.0	8.4	11.6	10.6	9.9	9.1	10.5	9.6	10.1	8.6
2	10.1	7.7	12.2	8.2	11.3	9.9	10.4	9.8	10.3	9.6	9.4	8.1
3	10.3	7.6	11.8	8.2	11.3	9.7	10.5	9.6	10.3	9.7	10.0	9.3
4	9.6	7.7	12.0	8.1	11.2	9.5	10.4	8.3	10.2	9.6	10.4	8.9
5	10.5	7.9	12.3	8.1	10.6	9.3	10.0	8.2	10.0	9.7	10.4	8.2
6	10.8	7.6	12.2	8.3	10.8	9.3	10.2	9.6	9.8	9.6	10.8	8.9
7	10.9	7.5	11.1	8.3	10.7	9.3	---	---	9.9	9.6	10.4	8.4
8	10.2	7.7	11.4	8.6	10.8	9.3	11.1	10.7	10.0	9.6	10.5	9.1
9	11.4	7.9	11.3	8.5	10.8	9.2	11.0	10.5	9.8	9.6	10.7	8.9
10	11.2	7.6	11.4	8.6	10.4	9.0	10.9	10.5	9.8	9.6	10.2	8.9
11	10.7	7.8	11.1	8.7	10.3	8.8	10.7	10.2	10.0	9.5	10.0	8.7
12	10.9	7.6	11.2	8.7	10.5	8.8	10.5	10.1	10.0	9.1	10.0	8.7
13	10.9	7.6	11.2	8.7	10.1	9.1	10.6	9.9	9.4	8.5	10.8	8.4
14	10.6	7.8	10.9	8.6	10.3	9.1	10.6	9.9	9.4	8.2	10.7	9.0
15	10.7	8.0	11.1	8.5	9.9	8.7	10.6	10.0	9.3	8.4	10.1	9.1
16	10.8	8.3	11.0	8.6	10.4	9.2	10.4	9.5	9.4	7.9	10.3	9.0
17	11.1	8.1	11.8	9.1	11.3	10.3	10.2	9.4	9.8	8.1	10.6	8.4
18	11.2	8.0	11.6	9.6	11.3	10.3	10.1	9.2	---	---	10.5	8.8
19	11.2	7.9	11.8	9.9	10.8	9.4	10.3	9.2	---	---	10.7	9.8
20	11.3	7.9	11.9	9.7	10.4	9.1	10.8	9.2	10.6	8.6	11.1	9.6
21	11.3	8.1	11.7	9.6	10.4	9.4	---	---	10.3	8.4	11.4	9.6
22	11.6	8.1	11.3	9.2	10.9	9.8	---	---	10.2	8.6	11.4	9.4
23	11.5	8.0	11.3	9.2	11.3	10.3	---	---	9.7	8.7	11.3	7.5
24	11.1	8.5	11.2	9.0	11.0	10.4	---	---	10.2	8.6	11.1	8.7
25	12.1	8.2	11.0	9.5	10.8	10.2	10.3	9.1	10.1	8.2	11.0	8.4
26	12.4	8.0	11.6	10.3	10.8	9.9	10.3	9.4	10.4	8.0	10.1	9.2
27	12.5	7.9	11.5	10.0	10.3	10.0	10.6	9.3	9.9	8.6	9.9	8.7
28	12.5	7.9	11.6	9.9	10.5	10.2	10.2	9.4	10.0	8.1	9.9	8.1
29	12.4	7.9	11.3	9.9	10.6	10.0	10.6	10.0	---	---	9.6	7.6
30	12.2	8.8	11.3	10.1	10.0	9.3	10.5	9.5	---	---	10.1	7.7
31	12.1	8.8	---	---	10.5	9.5	10.4	9.5	---	---	10.2	7.8
MONTH	12.5	6.8	12.3	8.1	11.6	8.7	11.1	8.2	10.6	7.9	11.4	7.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.2	7.7	11.1	7.4	9.6	6.6	8.0	6.1	8.6	5.2	10.0	7.0
2	9.5	8.0	12.4	7.1	9.7	6.4	8.7	6.2	7.8	5.7	9.9	6.9
3	9.4	7.2	10.0	7.1	9.8	6.0	8.5	5.9	8.6	5.6	9.7	6.9
4	8.7	7.2	8.8	8.1	9.5	5.8	8.5	6.1	8.5	5.5	9.3	7.0
5	9.1	7.1	9.7	7.7	8.9	5.8	8.3	6.6	8.2	5.2	9.2	6.0
6	9.0	7.1	10.3	7.4	8.1	5.8	8.4	6.3	8.2	5.5	8.4	7.0
7	10.0	9.1	10.1	7.9	7.9	5.3	8.5	6.3	7.9	5.7	9.4	7.2
8	10.4	8.7	9.2	7.4	9.6	6.0	8.6	6.6	8.1	5.6	9.7	7.2
9	10.7	8.5	9.2	7.6	9.7	6.6	8.3	6.2	8.3	5.3	9.3	7.2
10	10.7	7.8	9.5	7.4	9.5	6.6	8.5	6.1	7.4	5.6	9.7	6.8
11	10.0	7.9	9.1	7.3	9.3	6.3	8.1	6.3	7.8	6.8	8.2	7.2
12	9.5	7.4	9.9	7.8	9.1	6.0	8.2	6.1	---	---	9.2	7.2
13	10.0	7.3	9.7	7.9	9.2	6.5	8.2	6.4	---	---	8.9	7.6
14	9.9	7.1	9.3	7.4	9.1	7.0	8.2	6.0	---	---	8.5	7.8
15	9.5	7.3	9.4	7.2	9.1	6.7	8.3	6.2	8.0	6.4	9.3	7.4
16	9.7	7.6	9.2	7.1	9.2	6.1	8.4	6.1	7.8	6.0	9.5	7.1
17	10.0	7.2	9.1	7.0	8.7	6.2	8.3	6.1	7.8	6.2	9.1	7.0
18	9.5	7.8	9.1	7.5	9.1	6.6	8.5	6.3	7.7	6.4	9.3	7.1
19	9.8	7.9	9.2	7.8	9.4	6.5	9.0	5.8	7.8	6.1	9.3	6.9
20	9.8	7.9	9.4	7.2	8.4	5.6	9.1	6.1	7.9	6.1	9.2	6.8
21	10.1	7.4	9.9	6.8	8.4	6.1	9.4	5.9	7.7	6.4	9.0	7.2
22	10.0	6.9	9.9	7.2	9.0	6.5	8.8	5.6	7.3	6.7	9.7	7.0
23	9.5	7.4	10.2	6.8	10.3	6.0	9.4	5.5	7.7	6.0	9.6	6.9
24	9.8	6.7	11.1	7.1	9.8	5.9	9.4	5.7	6.9	6.2	9.7	6.8
25	9.6	6.9	11.2	6.7	9.5	6.5	9.5	5.5	7.5	6.7	8.9	7.1
26	9.9	7.1	11.2	6.4	9.7	6.1	9.2	5.6	7.6	6.2	8.7	6.5
27	10.7	7.9	10.5	6.8	9.6	5.8	9.0	5.5	7.5	5.6	8.3	6.8
28	10.7	7.1	9.3	7.0	9.0	5.7	9.1	5.8	---	---	8.8	7.2
29	11.5	7.6	9.6	6.8	8.5	5.8	9.7	5.8	---	---	8.7	7.1
30	12.8	7.1	9.5	7.2	8.4	5.7	9.6	5.6	---	---	8.4	7.0
31	---	---	9.7	6.2	---	---	9.2	5.5			---	---
MONTH	12.8	6.7	12.4	6.2	10.3	5.3	9.7	5.5	8.7	5.2	10.0	6.0
YEAR	12.8	5.2										

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	3.2	42	.36	6.3	19	.32	7.1	34	.65
2	3.3	70	.62	5.8	46	.72	7.1	28	.54
3	4.2	93	1.1	5.7	29	.45	6.8	17	.31
4	4.2	44	.50	5.4	27	.39	6.7	40	.72
5	5.1	105	1.4	4.9	39	.52	6.6	---	.65
6	4.8	63	.82	5.6	46	.73	6.6	32	.57
7	4.7	53	.67	7.0	62	1.2	6.8	---	.80
8	4.7	50	.63	7.3	56	1.1	6.8	42	.77
9	4.2	32	.36	7.0	73	1.4	6.8	---	.80
10	4.8	30	.39	6.5	34	.60	6.7	49	.89
11	4.9	20	.26	8.5	84	2.1	6.5	---	.50
12	5.1	16	.22	9.0	84	2.0	6.6	21	.37
13	5.4	19	.28	9.0	73	1.8	6.8	---	.30
14	5.7	16	.25	9.1	52	1.3	6.7	15	.27
15	6.2	51	.85	9.1	65	1.6	6.7	---	.45
16	6.8	73	1.3	8.7	52	1.2	6.8	34	.62
17	5.5	16	.24	8.6	43	1.0	6.4	36	.62
18	5.6	11	.17	9.0	55	1.3	6.5	---	1.0
19	5.2	16	.22	8.9	---	1.5	6.6	---	.60
20	5.1	19	.26	9.0	45	1.1	6.8	---	.65
21	5.2	23	.32	8.7	---	1.5	7.1	---	.75
22	5.4	25	.36	8.7	43	1.0	6.6	---	.70
23	5.8	26	.41	8.6	---	1.0	6.5	---	1.5
24	5.8	31	.49	8.4	46	1.0	6.5	---	1.5
25	4.9	31	.41	8.4	---	---	6.3	---	1.5
26	5.0	29	.39	7.8	---	.80	6.3	---	1.0
27	4.7	25	.32	7.6	42	.95	6.3	---	1.0
28	4.6	---	30	7.6	29	.60	6.2	---	1.0
29	5.2	78	1.1	7.4	29	.58	6.2	---	1.0
30	6.8	92	1.7	7.4	---	.50	6.2	90	1.5
31	6.3	48	.82	---	---	---	6.1	---	.90
TOTAL	158.4	---	47.22	231.0	---	30.26	204.7	---	24.43
		JANUARY			FEBRUARY			MARCH	
1	6.1	---	.70	5.9	---	.60	8.2	---	3.5
2	5.5	---	.80	6.0	45	.73	10	318	11
3	5.3	---	.80	5.8	56	.88	16	637	27
4	5.3	---	.80	5.8	84	1.3	13	517	19
5	5.3	---	.65	5.8	---	.60	12	437	14
6	5.3	---	.65	5.8	48	.75	9.5	313	8.0
7	5.3	---	.90	5.8	52	.81	10	234	6.4
8	5.3	46	.66	5.8	59	.92	9.6	---	4.0
9	5.3	50	.72	5.8	41	.64	9.1	158	3.9
10	5.3	---	.70	5.8	65	1.0	9.2	---	3.5
11	5.4	44	.64	5.8	73	1.1	8.8	---	4.0
12	5.3	---	.70	5.7	124	2.7	13	655	25
13	5.4	76	1.2	5.7	110	2.1	15	769	31
14	5.4	88	1.6	5.6	---	1.0	18	809	40
15	5.4	74	1.2	5.7	140	2.2	22	979	58
16	5.4	52	.76	5.8	---	1.0	18	698	34
17	5.6	---	.80	6.1	93	1.5	13	---	17
18	5.6	---	.80	6.3	---	.90	14	350	13
19	5.7	74	1.1	6.6	139	2.6	13	---	9.0
20	5.8	43	.67	7.6	202	4.3	12	240	7.8
21	5.8	---	.85	9.1	150	4.3	9.9	---	5.0
22	5.8	59	1.0	11	---	11	9.4	175	4.4
23	5.8	66	1.0	12	---	11	8.4	---	3.0
24	5.9	---	.75	8.9	166	4.1	8.1	124	2.7
25	5.6	48	.82	8.7	135	3.2	7.7	---	2.0
26	5.8	---	.60	8.5	140	3.2	8.3	120	2.7
27	5.7	---	.60	8.4	---	2.0	8.7	---	4.0
28	5.9	67	1.3	8.2	192	4.3	9.3	163	4.1
29	5.9	---	.60	---	---	---	11	218	6.5
30	5.8	72	1.4	---	---	---	9.3	---	4.0
31	5.8	---	1.0	---	---	---	8.6	---	4.0
TOTAL	172.8	---	26.77	194.0	---	70.73	352.1	---	381.5

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	11	246	7.3	5.5	153	2.3	7.4	---	3.0
2	11	---	6.0	6.2	---	5.5	7.0	150	2.8
3	9.9	184	4.9	9.5	615	18	7.1	---	3.0
4	9.9	---	3.5	16	853	38	4.8	---	1.0
5	9.3	82	2.1	20	1070	61	4.0	40	.43
6	10	177	4.8	16	665	30	7.4	---	1.0
7	9.5	---	4.5	10	300	8.1	6.5	---	1.5
8	8.6	---	4.5	8.4	220	5.0	5.7	---	.80
9	8.6	148	3.4	6.9	---	4.3	6.5	75	1.3
10	8.8	---	4.0	7.3	225	4.4	6.7	---	1.5
11	9.3	170	4.3	7.2	175	3.4	7.8	---	2.0
12	9.5	170	4.4	11	150	4.5	7.7	100	2.1
13	9.6	---	7.0	21	400	23	7.2	---	1.5
14	8.3	310	6.9	24	1130	84	8.9	---	2.0
15	11	537	17	18	497	26	7.8	65	1.4
16	12	512	16	15	200	8.1	6.7	---	1.5
17	8.9	320	7.7	13	200	7.0	6.3	---	1.5
18	8.7	260	6.1	12	---	8.0	4.8	110	1.4
19	7.6	230	4.7	15	200	8.1	3.4	50	.46
20	6.8	163	3.0	16	---	10	5.5	---	1.0
21	5.6	129	2.0	14	200	7.6	5.4	85	1.2
22	4.8	---	1.5	14	---	7.6	4.3	---	.90
23	4.7	---	1.5	13	200	7.0	4.1	50	.55
24	5.2	151	2.1	11	---	4.5	3.1	35	.29
25	5.3	---	1.5	9.2	100	2.5	2.5	---	.20
26	4.2	---	1.0	12	---	5.0	2.7	---	.20
27	2.8	60	.45	16	674	38	2.5	---	.10
28	2.4	50	.32	8.8	150	3.6	2.2	---	.10
29	1.9	---	.30	7.0	---	2.0	2.7	---	.20
30	3.4	80	.73	9.4	---	4.0	2.4	---	.20
31	---	---	---	9.5	200	5.1	---	---	---
TOTAL	228.6	---	133.50	381.9	---	445.6	161.1	---	35.13

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	3.1	---	.30	4.2	60	.68	10	110	3.0
2	2.8	---	.20	6.4	110	1.9	10	95	2.6
3	1.5	---	.10	6.1	155	2.6	9.8	90	2.4
4	1.3	---	.10	7.9	187	4.4	9.7	100	2.6
5	1.6	---	.20	8.9	---	3.5	10	110	3.0
6	2.2	50	.30	10	153	4.4	13	335	12
7	2.8	---	.50	11	---	4.0	12	260	8.4
8	3.9	---	.90	11	90	2.7	12	155	5.0
9	4.9	90	1.2	11	---	2.5	12	230	7.5
10	4.9	---	1.0	13	1070	40	12	190	6.2
11	5.6	---	1.5	16	745	34	13	346	13
12	5.8	100	1.6	29	4310	828	13	370	13
13	5.7	---	1.5	16	---	25	13	250	8.8
14	6.0	---	1.5	13	---	6.5	14	380	14
15	7.0	95	1.8	12	---	6.0	13	330	12
16	6.1	---	1.5	12	---	6.5	12	260	8.4
17	5.0	85	1.1	12	---	17	12	210	6.8
18	4.7	---	1.0	15	---	34	12	200	6.5
19	4.3	---	.90	12	550	18	12	210	6.8
20	5.1	110	1.5	12	---	13	12	180	5.8
21	4.2	---	.90	11	300	8.9	12	160	5.2
22	3.9	---	.70	12	---	8.0	12	110	3.6
23	3.4	---	.60	12	---	8.5	11	100	3.0
24	3.6	---	.70	11	---	6.0	10	130	3.5
25	4.1	70	.77	11	---	6.0	11	140	4.2
26	4.7	---	1.0	12	---	5.0	12	130	4.2
27	5.4	100	1.5	11	---	3.0	12	185	6.0
28	5.3	68	.97	11	---	3.0	12	135	4.4
29	4.7	---	.70	11	---	3.0	13	100	3.5
30	4.3	---	.70	11	---	3.0	13	200	7.0
31	4.0	---	.50	11	---	3.0	---	---	---
TOTAL	131.9	---	27.74	362.5	---	1112.08	354.5	---	192.4
YEAR	2933.5		2527.36						

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°49'09", long 108°11'08", in SE¼NE¼ sec.5, T.3 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 0.6 mi (1.0 km) upstream from mouth, about 300 ft (91 m) above mouth of West Fork Stewart Gulch, and 14.2 mi (22.8 km) west of Rio Blanco.

DRAINAGE AREA.--44.0 mi² (114 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

REVISED RECORDS.--WDR CO-77-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,430 ft (1,960 m), from topographic map.

REMARKS.--Records good. Diversion immediately upstream from gage for irrigation of about 20 acres (81,000 m²) of grassland.

AVERAGE DISCHARGE.--8 years, 1.56 ft³/s (0.044 m³/s), 1,130 acre-ft/yr (1.39 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38 ft³/s (1.08 m³/s) July 19, 1977, gage height, 4.05 ft (1.234 m); no flow Aug. 7, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12 ft³/s (0.34 m³/s) at 1600 Feb. 22, gage height, 3.34 ft (1.018 m); minimum daily, 0.53 ft³/s (0.015 m³/s) Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.94	.90	1.2	1.3	1.5	1.7	1.7	1.8	1.5	1.4	1.2	1.1
2	.94	.96	1.2	1.3	1.5	1.7	1.7	1.8	1.5	1.4	1.2	1.1
3	1.0	.97	1.2	1.3	1.5	1.7	1.7	1.8	1.5	1.3	1.2	1.1
4	1.0	1.0	1.1	1.3	1.4	1.6	1.7	1.8	1.5	1.3	1.2	1.1
5	1.0	1.0	1.1	1.3	1.4	1.6	1.7	1.6	1.5	1.3	1.2	1.2
6	.95	1.0	1.1	1.3	1.4	1.6	1.8	1.6	1.5	1.3	1.2	1.2
7	.95	1.1	1.1	1.3	1.4	1.5	1.7	1.6	1.5	1.3	1.2	1.2
8	1.0	1.1	1.1	1.3	1.4	1.5	1.7	1.6	1.5	1.3	1.3	1.2
9	1.0	1.1	1.1	1.3	1.4	1.5	1.6	1.5	1.7	1.3	1.3	1.2
10	.95	1.1	1.1	1.3	1.4	1.6	1.6	1.5	1.5	1.3	1.3	1.2
11	1.0	1.1	1.1	1.3	1.4	1.6	1.6	1.4	1.5	1.3	1.2	1.2
12	1.0	1.0	1.1	1.3	1.4	1.6	1.6	1.4	1.5	1.3	1.3	1.3
13	1.0	1.0	1.1	1.3	1.4	1.6	1.6	1.5	1.5	1.3	1.2	1.3
14	.95	1.0	1.1	1.3	1.6	1.7	1.6	1.5	1.5	1.3	1.2	1.2
15	.95	1.0	1.2	1.3	1.7	1.7	1.7	1.5	1.5	1.3	1.2	1.1
16	.95	1.0	1.2	1.3	1.8	1.7	1.6	1.5	1.5	1.3	1.2	1.0
17	.95	1.0	1.2	1.4	1.9	1.7	1.6	1.6	1.5	1.3	1.2	1.0
18	.89	1.1	1.2	1.4	1.8	1.7	1.6	1.5	1.5	1.3	1.3	1.0
19	.89	1.1	1.2	1.4	1.8	1.6	1.6	1.6	1.5	1.3	1.1	1.0
20	.89	1.1	1.2	1.4	2.0	1.6	1.7	1.5	1.5	1.3	1.1	1.0
21	.89	1.1	1.2	1.4	2.2	1.6	1.8	1.5	1.6	1.3	1.2	.94
22	.89	1.1	1.2	1.4	2.8	1.6	1.8	1.5	1.4	1.2	1.2	.94
23	.89	1.1	1.3	1.4	2.1	1.6	1.8	1.5	1.3	1.2	1.2	.94
24	.89	1.1	1.3	1.4	1.8	1.6	1.8	1.5	1.3	1.2	1.2	.88
25	.89	1.1	1.3	1.4	1.8	1.6	1.8	1.5	1.3	1.2	1.2	.74
26	.89	1.1	1.3	1.5	1.8	1.6	1.8	1.5	1.3	1.2	1.2	.53
27	.89	1.2	1.3	1.4	1.8	1.6	1.8	1.5	1.3	1.2	1.2	.59
28	.96	1.2	1.3	1.5	1.8	1.6	1.8	1.5	1.3	1.2	1.2	.66
29	.96	1.2	1.3	1.4	---	1.7	1.8	1.6	1.3	1.2	1.2	.74
30	.96	1.2	1.3	1.5	---	1.7	1.8	1.6	1.3	1.2	1.2	.74
31	.96	---	1.3	1.5	---	1.7	---	1.6	---	1.2	1.2	---
TOTAL	29.27	32.03	37.0	42.2	47.2	50.4	51.1	48.4	43.6	39.5	37.5	30.40
MEAN	.94	1.07	1.19	1.36	1.69	1.63	1.70	1.56	1.45	1.27	1.21	1.01
MAX	1.0	1.2	1.3	1.5	2.8	1.7	1.8	1.8	1.7	1.4	1.3	1.3
MIN	.89	.90	1.1	1.3	1.4	1.5	1.6	1.4	1.3	1.2	1.1	.53
AC-FT	58	64	73	84	94	100	101	96	86	78	74	60

CAL YR 1981 TOTAL 503.57 MEAN 1.38 MAX 2.5 MIN .35 AC-FT 999
WTR YR 1982 TOTAL 488.60 MEAN 1.34 MAX 2.8 MIN .53 AC-FT 969

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to current year.
pH: October 1974 to March 1982 (discontinued).
WATER TEMPERATURE: October 1974 to current year.
DISSOLVED OXYGEN: October 1974 to March 1982 (discontinued).
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1974. Pumping sediment sampler since October 1974.

REMARKS.--Dissolved-oxygen and pH records for the 1979 water year are published in this report. Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,200 micromhos Nov. 10, 1975; minimum, 583 micromhos Feb. 22, 1982.
pH: Maximum, 8.9 units Dec. 9, 11, 1979; minimum, 7.6 units Oct. 7, 1975.
WATER TEMPERATURES: Maximum, 20.5°C July 3, 1976, June 3, 1977; minimum, 0.5°C Jan. 9, Dec. 17, 1977, Mar. 3, Dec. 2, 3, 1978, Jan. 29, 1979.
DISSOLVED OXYGEN: Maximum, 16.6 mg/L Jan. 13, 1976; minimum, 3.6 mg/L Aug. 19, 20, 1977.
SEDIMENT CONCENTRATIONS: Maximum daily, 1,350 mg/L June 8, 1975; minimum daily, no flow Aug. 7-9, 1975.
SEDIMENT LOADS: Maximum daily, 10 tons (9.1 t) estimated June 8, 1975; minimum daily, no flow Aug. 7-9, 1975.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,360 micromhos a few days in May, June, July, Sept.; minimum, 583 micromhos Feb. 22.
pH: Maximum, not determined; minimum not determined.
WATER TEMPERATURES: Maximum, 18.0°C May 26 and a few days in June; minimum, 1.0°C Jan. 6, 7, Feb. 5, 6.
DISSOLVED OXYGEN: Maximum, not determined; minimum, not determined.
SEDIMENT CONCENTRATIONS: Maximum daily, 135 mg/L Feb. 23; minimum daily, 0 mg/L Jan. 1, 3.
SEDIMENT LOADS: Maximum daily, 1.6 tons (1.4 t) Feb. 28; minimum daily, 0.00 ton (0.00 t) Jan. 1, 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)
OCT 19...	1120	.88	1320	1280	8.2	8.5	10.2	1.1	21	180	40
NOV 24...	1045	1.2	1320	1170	8.2	8.0	11.8	2.3	--	--	--
DEC 30...	1000	1.3	1280	1270	8.1	6.0	10.2	1.3	--	--	--
MAY 19...	1110	1.7	1320	1350	8.2	11.0	9.6	1.2	15	--	--
SEP 21...	1425	.94	1360	1350	8.4	12.0	8.5	1.9	--	--	--

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT 19...	130	510	86	71	130	2.6	1.3	380	.5	380	6.4
NOV 24...	--	530	90	74	130	2.5	1.2	390	--	360	6.3
DEC 30...	--	520	88	73	120	2.3	1.2	420	--	350	6.6
MAY 19...	--	520	90	71	120	2.3	1.3	400	< .5	350	6.3
SEP 21...	--	530	89	73	120	2.3	1.3	408	--	350	6.4

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT 19...	.3	.10	16	926	1.2	2.2	.72	< .060	--	.34	<.010
NOV 24...	.2	--	16	916	1.2	3.0	.85	.170	1.2	1.4	.020
DEC 30...	.3	--	16	911	1.2	3.2	.79	.090	.45	.54	.050
MAY 19...	.3	.05	16	901	1.2	4.1	.57	.070	.52	.59	.040
SEP 21...	.3	--	16	907	1.2	2.3	.57	.060	1.2	1.3	<.010

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)
OCT 19...	20	1	45	70	<1	0	0	<10
NOV 24...	--	1	--	80	--	--	--	<10
DEC 30...	--	<1	--	90	--	--	--	<10
MAY 19...	<10	1	49	80	<3	<10	2	<9
SEP 21...	--	1	--	80	--	--	--	4

DATE	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)
OCT 19...	1	16	1	.0	<10	0	2800	7	--
NOV 24...	--	--	1	--	--	--	--	--	--
DEC 30...	--	--	1	--	--	--	--	--	--
MAY 19...	<1	20	3	<.1	3	<1	2700	<12	1.4
SEP 21...	--	--	3	--	--	--	2800	--	--

DATE	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT 19...	<22	<.4	<12	<.4	<11	<.4	.06	2.6
NOV 24...	--	--	--	--	--	--	--	--
DEC 30...	--	--	--	--	--	--	--	--
MAY 19...	<21	2.0	<12	1.8	<11	1.7	.10	2.5
SEP 21...	--	--	--	--	--	--	--	--

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT 19...	1.6	.3	>.01	3	.00	0	0	.0	.0	.0	.0	.1
NOV 24...	3.2	.2	--	--	--	--	--	--	--	--	--	--
DEC 30...	2.7	.3	--	--	--	--	--	--	--	--	--	--
MAY 19...	1.9	--	<.01	6	--	0	--	--	--	--	--	--
SEP 21...	2.0	.2	--	2	--	--	--	--	--	--	--	--

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DI-AZINON, TOTAL IN BOTTOM MATERIAL (UG/KG)	DI-ELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDO-SULFAN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTA-CHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALA-THION, TOTAL IN BOTTOM MATERIAL (UG/KG)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG)
OCT											
19...	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NOV											
24...	--	--	--	--	--	--	--	--	--	--	--
DEC											
30...	--	--	--	--	--	--	--	--	--	--	--
MAY											
19...	--	--	--	--	--	--	--	--	--	--	--
SEP											
21...	--	--	--	--	--	--	--	--	--	--	--

DATE	METHYL PARA-THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI-THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG)	PARA-THION, TOTAL IN BOTTOM MATERIAL (UG/KG)	PER-THANE IN BOTTOM MATERIL (UG/KG)	TOXA-PHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TRI-THION, TOTAL IN BOTTOM MATERIAL (UG/KG)	2,4-D, TOTAL IN BOTTOM MATERIAL (UG/KG)	2,4-DP, IN BOTTOM MAT. (UG/KG)	2,4,5-T TOTAL IN BOTTOM MATERIAL (UG/KG)	SILVEX, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT											
19...	.0	.0	.0	.0	.00	.0	.0	.0	.0	.0	.0
NOV											
24...	--	--	--	--	--	--	--	--	--	--	--
DEC											
30...	--	--	--	--	--	--	--	--	--	--	--
MAY											
19...	--	--	--	--	--	--	--	--	--	--	--
SEP											
21...	--	--	--	--	--	--	--	--	--	--	--

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
OCT				
02...	0955	1.0	3	.00
15...	1035	1.0	19	.05
19...	1120	.88	2	.00
NOV				
02...	1405	.94	11	.03
17...	1100	1.0	2	.00
24...	1045	1.2	4	.01
DEC				
16...	1415	1.2	29	.09
30...	1000	1.3	7	.02
JAN				
20...	1125	1.3	10	.04
FEB				
19...	1640	2.8	282	2.1
APR				
06...	1125	1.8	19	.09
MAY				
05...	1345	1.6	16	.07
19...	1110	1.7	249	1.1
JUN				
09...	1430	1.7	120	.55
JUL				
06...	1330	1.3	14	.05
AUG				
17...	1040	1.2	5	.02
19...	1405	1.2	11	.04
SEP				
21...	1425	.94	9	.02

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1330	1320	1320	1310	1320	1300	---	---	1300	1310	1330	1340
2	1320	1320	1310	1320	1320	1320	---	---	1310	1320	1300	1330
3	1320	1320	1310	1320	1320	1320	---	---	1300	1320	1320	1330
4	1320	1320	1310	1320	1330	1300	---	---	1300	1320	1320	1330
5	1320	1320	1310	1320	1320	1290	---	1300	1300	1310	1320	1330
6	1330	1320	1310	1320	1320	1280	1320	1300	1300	1310	1320	1330
7	1330	1320	1310	1330	1320	---	1300	1310	1310	1310	1320	1330
8	1310	1320	1310	1310	1320	---	1290	1310	1340	1310	1320	1330
9	1330	1320	1320	1320	1320	---	1310	1320	1310	1310	1320	1320
10	1330	1320	1320	1320	1320	---	---	1320	1310	1310	1320	1330
11	1320	1320	1320	1320	1320	---	---	1320	1310	1310	1320	1300
12	1320	1320	1320	1320	1320	---	---	1260	1310	1320	1290	1320
13	1320	1320	1320	1320	1320	---	---	1280	1320	1320	1310	1310
14	1320	1320	1320	1320	1320	---	---	1300	1310	1320	1320	1320
15	1310	1320	1320	1320	1300	---	---	1320	1310	1320	1320	1320
16	1320	1320	1310	1330	1290	---	---	1310	1310	1320	1320	1330
17	1320	1320	1320	1330	1270	---	---	1300	1310	1320	1320	1330
18	1320	1310	1320	1330	1270	---	---	1310	1310	1320	1250	1330
19	1320	1320	1320	1330	1240	---	---	1320	1310	1320	1330	1320
20	1320	1320	1320	1330	1190	---	---	1330	1320	1320	1320	1320
21	1320	1320	1310	1330	1160	---	---	1340	1310	1320	1320	1320
22	1320	1320	1320	1320	1140	---	---	1340	1310	1320	1320	1320
23	1320	1320	1320	1330	1170	---	---	---	1310	1320	1330	1320
24	1320	1330	1320	1320	1280	---	---	---	1310	1310	1330	1320
25	1320	1320	1320	1320	1280	---	---	---	1310	1320	1320	1320
26	1320	1330	1320	1310	1280	---	---	---	1310	1320	1330	1320
27	1320	1320	1310	1320	1300	---	---	1320	1310	1320	1330	1300
28	1320	1320	1320	1320	1300	---	---	1340	1310	1310	1330	1310
29	1310	1310	1320	1320	---	---	---	1340	1310	1320	1330	1310
30	1310	1320	1310	1330	---	---	---	1300	1310	1320	1330	1310
31	1320	---	1320	1320	---	---	---	1290	---	1320	1330	---
MEAN	1320	1320	1320	1320	1280				1310	1320	1320	1320

WTR YR 1982 MEAN 1310 MAX 1340 MIN 1140

PH (STANDARD UNITS), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.6	8.4	8.0	7.8	8.0	7.8	---	---	---	---	8.2	8.0
2	8.6	8.5	8.0	7.7	8.1	7.9	---	---	---	---	8.2	8.0
3	8.6	8.6	8.0	7.8	8.1	7.8	---	---	---	---	8.2	8.1
4	8.6	8.4	8.0	7.8	8.0	7.7	---	---	---	---	8.1	8.1
5	8.6	8.4	8.0	7.8	7.9	7.7	---	---	---	---	8.2	8.0
6	8.6	8.4	8.0	7.8	8.0	7.8	---	---	---	---	8.1	8.0
7	8.6	8.4	8.0	7.8	7.9	7.8	---	---	---	---	8.1	8.0
8	8.5	8.4	8.0	7.8	---	---	---	---	---	---	8.2	8.0
9	8.6	8.4	8.0	7.8	---	---	---	---	8.2	8.0	8.2	8.1
10	8.6	8.4	8.1	7.9	---	---	---	---	8.1	8.0	8.2	8.1
11	8.6	8.4	8.1	7.8	---	---	---	---	8.1	8.0	8.1	8.0
12	8.6	8.4	8.1	7.8	---	---	---	---	8.1	8.0	8.2	8.0
13	8.6	8.4	8.1	7.9	---	---	---	---	8.1	8.0	8.2	8.0
14	8.5	8.4	8.1	7.9	---	---	---	---	8.1	8.0	8.2	8.0
15	8.6	8.4	8.1	7.9	---	---	---	---	8.1	8.0	8.2	8.0
16	8.6	8.4	8.1	7.9	---	---	---	---	8.1	8.0	8.2	8.1
17	8.6	8.4	8.1	7.9	---	---	---	---	8.1	8.0	8.2	8.1
18	8.6	8.4	8.1	7.9	---	---	8.1	8.0	8.2	8.0	8.2	8.1
19	8.6	8.5	8.0	7.9	---	---	8.2	8.1	8.2	8.0	8.2	8.1
20	---	---	8.1	7.9	---	---	8.1	8.1	8.2	8.0	8.2	8.1
21	---	---	8.1	7.9	---	---	8.1	8.0	8.2	8.0	8.2	8.1
22	---	---	8.1	7.9	---	---	8.1	8.0	8.2	8.0	8.2	8.1
23	---	---	8.1	7.9	---	---	8.1	8.0	8.2	8.0	8.2	8.0
24	---	---	8.1	7.9	---	---	8.1	8.0	8.2	8.0	8.2	8.1
25	---	---	8.1	7.9	---	---	8.1	8.0	8.1	8.0	8.2	8.0
26	8.0	7.8	8.1	7.9	---	---	8.2	8.0	8.2	8.0	8.2	8.0
27	8.0	7.8	8.1	7.9	---	---	8.1	8.0	8.2	8.0	8.2	8.0
28	8.0	7.8	8.0	7.9	---	---	8.1	8.0	8.1	8.0	8.2	8.1
29	8.0	7.8	8.1	7.9	---	---	8.2	8.0	---	---	8.2	8.0
30	8.0	7.8	8.1	7.9	---	---	8.1	8.0	---	---	8.1	8.1
31	8.0	7.8	---	---	---	---	8.1	7.9	---	---	---	---
MONTH			8.1	7.7							8.2	8.0

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	8.5	8.3	---	---	---	---	8.3	8.2	8.1	8.0
2	8.2	8.0	8.5	8.4	8.3	8.2	---	---	8.3	8.1	8.1	8.0
3	8.1	8.1	8.5	8.4	---	---	---	---	8.3	8.2	8.1	8.0
4	8.1	8.0	8.4	8.3	8.1	7.9	---	---	8.3	8.2	8.1	8.0
5	8.1	8.0	8.5	8.4	---	---	---	---	8.3	8.2	8.2	8.0
6	8.1	8.0	8.5	8.4	---	---	---	---	8.3	8.2	8.1	8.0
7	8.1	8.0	8.4	8.4	---	---	---	---	8.3	8.2	---	---
8	8.1	8.0	8.4	8.3	---	---	---	---	8.3	8.2	---	---
9	8.1	8.0	---	---	---	---	---	---	8.3	8.2	---	---
10	8.1	8.0	---	---	---	---	---	---	8.3	8.2	---	---
11	8.1	8.0	8.4	8.3	---	---	8.5	8.4	8.3	8.2	---	---
12	8.1	8.0	---	---	---	---	8.6	8.3	8.2	8.2	---	---
13	8.4	8.1	---	---	8.3	8.2	8.5	8.2	8.2	8.2	---	---
14	8.4	8.4	---	---	8.3	8.2	8.4	8.1	8.2	8.1	---	---
15	8.5	8.4	---	---	8.3	7.9	8.3	8.2	8.2	8.1	---	---
16	8.5	8.4	---	---	8.2	7.7	8.3	8.2	8.2	8.0	---	---
17	8.4	8.4	8.3	8.2	8.2	7.7	8.3	8.2	8.2	8.1	---	---
18	8.5	8.4	8.4	8.2	---	---	8.3	8.2	8.2	8.1	---	---
19	8.5	8.4	8.3	8.2	8.6	8.3	8.3	8.2	8.2	8.1	---	---
20	8.5	8.4	8.4	8.2	8.4	8.2	8.3	8.2	8.2	8.1	8.3	8.1
21	8.4	8.4	8.3	8.2	8.4	8.2	8.3	8.2	8.2	8.1	8.3	8.1
22	8.4	8.4	8.4	8.2	8.4	8.2	8.3	8.2	8.2	8.1	8.3	8.1
23	8.5	8.4	---	---	8.4	8.3	8.3	8.2	8.2	8.1	8.3	8.1
24	8.5	8.4	8.4	8.3	---	---	8.3	8.2	8.2	8.1	8.3	8.1
25	8.5	8.4	8.4	8.3	---	---	8.3	8.2	8.2	8.1	8.3	8.1
26	8.5	8.4	---	---	---	---	8.3	8.2	8.2	8.1	8.3	8.1
27	8.4	8.4	---	---	---	---	8.3	8.2	8.1	8.1	---	---
28	8.4	8.4	---	---	---	---	8.3	8.2	8.2	8.1	8.3	8.2
29	8.5	8.4	---	---	---	---	8.3	8.2	8.2	8.1	8.4	8.2
30	8.4	8.4	8.4	8.2	---	---	8.3	8.2	8.2	8.1	8.4	8.2
31	---	---	8.3	8.2	---	---	8.3	8.2	8.1	8.0	---	---
MONTH	8.5	8.0							8.3	8.0		

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.3	8.1	8.3	8.1	8.4	8.1	8.4	8.1	8.4	8.1	8.3	8.1
2	8.3	8.0	8.3	8.1	8.4	8.1	8.4	8.1	8.4	8.1	8.3	8.0
3	8.3	8.0	8.3	8.1	8.4	8.1	8.4	8.1	8.3	8.1	---	---
4	8.2	8.1	8.3	8.1	8.4	8.1	8.4	8.1	8.3	8.1	---	---
5	8.3	8.1	8.3	8.1	8.4	8.1	8.4	8.1	8.3	8.1	---	---
6	8.3	8.2	8.3	8.1	8.4	8.1	8.4	8.1	8.3	8.1	---	---
7	8.3	8.1	8.3	8.1	8.4	8.1	8.3	8.1	8.3	8.1	---	---
8	8.2	8.1	8.3	8.1	8.3	8.1	8.4	8.1	8.4	8.1	---	---
9	8.3	8.1	8.3	8.1	8.4	8.1	8.4	8.1	8.4	8.1	---	---
10	8.3	8.1	8.4	8.1	8.3	8.1	8.4	8.1	8.3	8.1	---	---
11	8.3	8.1	8.3	8.1	8.4	8.1	8.4	8.1	8.4	8.1	---	---
12	8.3	8.1	8.4	8.1	8.4	8.1	8.4	8.1	8.3	8.1	---	---
13	8.3	8.1	8.4	8.1	8.3	8.1	8.4	8.1	8.4	8.0	---	---
14	8.3	8.1	8.4	8.1	8.3	8.1	8.4	8.1	8.4	7.9	---	---
15	8.3	8.1	8.4	8.1	8.3	8.1	8.4	8.1	8.3	7.9	---	---
16	8.3	8.1	8.4	8.1	8.4	8.1	8.4	8.1	8.3	7.9	---	---
17	8.3	8.1	8.4	8.1	8.3	8.1	8.4	8.1	8.3	7.9	---	---
18	8.3	8.1	8.4	8.1	8.3	8.1	8.4	8.1	8.3	7.9	---	---
19	8.3	8.1	8.4	8.2	8.4	8.1	8.4	8.1	8.3	7.9	---	---
20	8.3	8.2	8.4	8.1	8.4	8.1	8.4	8.1	8.3	7.9	---	---
21	8.3	8.1	8.4	8.1	8.3	8.1	8.4	8.1	8.3	7.9	---	---
22	8.3	8.1	8.4	8.1	8.3	8.1	8.4	8.1	8.3	7.9	---	---
23	8.3	8.1	8.4	8.1	8.4	8.1	8.4	8.1	8.3	8.0	---	---
24	8.2	8.1	8.4	8.1	8.4	8.1	8.4	8.1	8.3	8.0	---	---
25	8.3	8.1	8.3	8.1	8.4	8.1	8.4	8.1	8.3	8.1	---	---
26	8.3	8.1	8.4	8.1	8.4	8.1	8.4	8.0	8.3	8.1	---	---
27	8.3	8.1	8.4	8.1	8.4	8.1	8.4	8.1	8.3	8.0	---	---
28	8.3	8.1	8.4	8.1	8.4	8.1	8.4	8.0	8.3	8.1	---	---
29	8.2	8.1	8.4	8.1	8.4	8.1	8.4	8.0	---	---	---	---
30	8.3	8.1	8.4	8.1	8.4	8.1	8.4	8.1	---	---	---	---
31	8.2	8.1	---	---	8.4	8.1	8.4	8.1	---	---	---	---
MONTH	8.3	8.0	8.4	8.1	8.4	8.1	8.4	8.0	8.4	7.9	8.3	8.0
YEAR	8.4	7.9										

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.5	6.0	10.5	4.0	5.5	2.0	8.0	3.5	7.0	4.5	9.5	5.0
2	10.5	7.5	10.5	4.5	7.5	3.5	6.0	2.0	8.5	3.5	11.0	7.0
3	11.5	8.5	11.0	4.5	8.5	3.5	6.0	3.0	7.0	3.0	8.5	5.5
4	9.5	8.0	11.0	4.5	8.0	3.5	5.5	2.0	6.0	1.5	9.5	5.0
5	11.5	7.5	10.5	4.5	9.0	4.5	7.5	4.5	6.5	1.0	8.5	4.5
6	12.0	6.5	10.0	5.0	9.0	4.0	5.0	1.0	7.0	1.0	11.0	4.0
7	12.0	7.0	10.0	5.5	9.5	4.5	4.5	1.0	8.0	1.5	11.0	5.5
8	9.0	8.0	9.5	5.0	9.5	4.0	6.0	1.5	8.0	2.0	9.5	5.0
9	10.5	7.0	10.0	4.0	9.0	4.0	7.0	2.5	7.0	2.0	10.5	5.0
10	11.0	6.5	9.5	4.0	9.0	5.0	8.0	3.0	8.5	3.0	10.0	5.5
11	9.5	7.0	10.0	4.0	9.0	5.0	7.0	3.5	8.5	3.0	9.5	6.5
12	11.0	7.0	10.0	4.0	8.5	4.5	7.0	3.0	9.5	3.0	11.5	5.5
13	11.0	6.5	10.5	5.0	7.0	5.0	7.5	3.5	10.0	3.5	13.0	5.0
14	10.0	7.0	9.5	6.0	7.0	4.5	7.0	2.5	9.5	6.0	10.5	5.5
15	9.0	6.5	9.5	5.5	8.5	4.5	7.5	3.0	9.5	5.5	11.0	6.5
16	9.5	6.5	10.5	5.0	7.0	3.5	8.5	3.5	8.5	5.5	11.0	5.5
17	10.0	7.0	9.0	4.5	7.0	2.5	8.0	4.0	10.5	5.0	12.0	5.0
18	10.5	6.0	7.5	5.0	7.0	2.5	7.5	4.5	11.0	4.5	11.5	5.5
19	11.0	5.5	8.0	3.5	8.0	5.0	8.0	3.5	11.0	4.0	8.0	5.0
20	10.5	5.5	8.0	3.5	9.0	5.5	8.0	3.5	11.0	4.5	9.0	5.0
21	10.5	5.5	8.5	4.5	6.5	5.0	5.5	3.0	11.5	5.0	8.0	5.0
22	10.0	5.0	9.0	5.5	7.0	3.5	6.5	3.0	10.5	5.0	9.5	5.0
23	10.0	4.5	9.5	5.5	6.5	2.0	6.0	2.5	10.0	5.5	10.0	5.0
24	7.5	6.0	9.5	5.5	5.5	1.5	8.5	4.5	10.5	4.5	9.5	5.5
25	9.5	5.5	6.0	4.5	6.5	3.5	9.0	3.5	11.5	5.0	9.5	6.0
26	10.5	5.0	7.5	2.5	5.5	2.5	10.0	5.0	11.5	4.5	8.0	7.0
27	10.5	6.0	7.0	3.0	6.5	2.0	9.0	3.5	10.0	5.5	8.5	7.0
28	9.5	6.0	7.5	3.5	5.5	1.5	9.5	3.0	11.0	5.5	9.0	7.0
29	8.5	5.5	6.5	4.0	7.5	3.5	8.0	3.0	---	---	7.5	6.5
30	7.5	4.5	7.0	3.5	8.5	4.0	9.0	2.5	---	---	7.5	6.0
31	9.5	3.0	---	---	7.0	3.5	8.5	3.5	---	---	8.5	6.0
MONTH	12.5	3.0	11.0	2.5	9.5	1.5	10.0	1.0	11.5	1.0	13.0	4.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.0	7.0	12.0	7.5	15.0	7.0	16.5	8.5	15.0	8.0	13.5	8.0
2	8.0	6.5	12.5	7.5	14.5	6.5	16.5	7.5	13.0	10.0	13.5	7.0
3	8.0	6.5	12.5	8.5	16.0	7.5	17.0	7.5	14.0	9.5	13.5	7.5
4	8.0	7.0	---	---	16.5	6.5	16.5	7.5	14.0	8.0	12.5	8.0
5	7.5	6.5	13.0	6.0	16.5	6.5	13.5	8.5	14.0	8.5	13.0	9.5
6	11.5	6.0	14.0	5.0	16.0	6.0	15.5	7.0	14.0	8.5	13.0	8.0
7	7.5	4.0	12.5	5.5	17.0	5.5	14.0	6.5	14.0	7.5	11.5	8.0
8	11.5	3.5	14.0	7.0	16.0	6.0	13.5	8.5	13.5	9.0	11.5	8.5
9	13.0	4.5	14.0	7.0	17.0	6.0	14.5	7.5	13.5	9.0	11.0	8.0
10	14.0	4.5	13.0	6.5	15.0	6.0	16.0	7.0	13.5	7.0	12.0	9.0
11	13.0	6.0	12.0	6.5	18.0	7.0	15.5	8.0	13.5	9.0	10.0	9.0
12	10.5	7.0	8.0	5.0	14.5	7.5	15.5	8.0	12.0	7.5	11.5	8.0
13	12.5	6.5	12.5	6.5	14.5	7.5	14.5	8.5	12.0	8.5	9.5	8.0
14	12.0	6.5	13.5	7.0	15.0	7.0	15.0	7.5	13.0	9.5	9.5	7.0
15	10.5	6.5	13.0	6.0	14.5	7.0	15.0	6.5	14.5	8.5	13.0	7.5
16	10.5	6.0	15.5	6.5	18.0	7.0	15.5	6.5	13.0	9.0	12.5	7.5
17	11.0	6.0	14.5	5.0	18.0	8.0	15.0	8.0	13.5	8.5	12.0	8.5
18	9.5	6.5	15.0	7.0	14.5	8.5	14.5	8.5	14.0	8.0	11.0	7.5
19	9.0	6.0	13.0	7.5	17.0	7.5	15.5	7.5	14.0	7.0	11.5	7.5
20	9.0	5.0	15.5	5.5	17.5	7.0	14.0	7.5	13.0	9.0	12.5	8.0
21	13.5	4.0	17.0	6.0	14.5	7.5	14.5	7.0	13.5	9.5	12.5	8.0
22	14.5	4.5	15.0	6.5	14.0	8.0	15.5	9.5	12.0	9.5	13.0	7.5
23	11.5	6.0	17.0	7.0	16.0	8.0	15.5	9.0	13.5	9.0	13.0	8.0
24	14.0	6.0	15.5	7.0	16.5	6.0	14.5	9.0	14.5	9.5	12.0	7.0
25	12.0	6.5	16.0	6.5	15.5	8.0	15.0	9.0	12.0	9.0	11.0	8.5
26	11.5	7.0	18.0	6.5	17.0	7.0	14.0	9.0	13.0	8.5	12.0	9.5
27	11.5	7.5	17.5	7.0	18.0	7.5	13.0	9.5	12.0	8.5	10.5	8.5
28	14.0	6.5	14.0	7.0	17.5	8.0	13.0	6.5	13.0	8.5	9.0	7.5
29	12.0	7.5	16.0	6.5	17.0	8.0	14.0	9.5	13.0	9.0	9.5	7.0
30	12.5	6.5	13.5	7.0	16.5	9.0	15.5	8.5	14.0	8.5	10.0	7.5
31	---	---	17.0	6.5	---	---	15.0	8.5	12.0	8.5	---	---
MONTH	14.5	3.5	18.0	5.0	18.0	5.5	17.0	6.5	15.0	7.0	13.5	7.0
YEAR	18.0	1.0										

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			---	---	10.7	8.0			---	---	10.4	8.0
2			---	---	12.0	8.4			---	---	10.1	7.9
3			---	---	11.8	8.6			---	---	10.4	8.0
4			---	---	11.8	8.2			---	---	10.2	8.4
5			---	---	10.4	8.2			---	---	11.0	7.9
6			---	---	10.4	8.6			---	---	10.2	7.6
7			---	---	11.2	8.8			---	---	---	---
8			---	---	---	---			---	---	---	---
9			---	---	---	---			---	---	---	---
10			---	---	---	---			---	---	---	---
11			---	---	---	---			---	---	---	---
12			---	---	---	---			---	---	---	---
13			---	---	---	---			---	---	---	---
14			---	---	---	---			---	---	---	---
15			---	---	---	---			---	---	---	---
16			---	---	---	---			---	---	---	---
17			---	---	---	---			---	---	---	---
18			---	---	---	---			---	---	---	---
19			---	---	---	---			---	---	---	---
20			11.2	7.0	---	---			11.6	8.3	---	---
21			11.2	7.6	---	---			11.3	8.6	---	---
22			12.4	7.8	---	---			11.2	8.3	---	---
23			12.2	8.2	---	---			12.1	8.6	---	---
24			12.6	7.8	---	---			12.4	9.2	---	---
25			13.6	7.6	---	---			12.0	9.0	---	---
26			11.2	8.0	---	---			11.4	8.4	---	---
27			11.8	8.4	---	---			11.2	8.2	---	---
28			11.6	8.2	---	---			10.8	8.2	---	---
29			11.6	8.0	---	---			---	---	---	---
30			11.8	8.0	---	---			---	---	---	---
31			---	---	---	---			---	---	---	---
MONTH												

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	10.8	8.4	---	---	---	---	9.8	6.8	9.0	7.6
2	---	---	10.2	8.6	9.4	8.6	---	---	10.6	6.8	8.8	7.6
3	---	---	10.5	8.7	---	---	---	---	11.6	6.8	8.9	7.6
4	---	---	10.3	8.6	9.0	8.3	---	---	9.2	7.0	8.9	7.6
5	---	---	10.3	8.4	---	---	---	---	8.6	7.8	9.0	7.6
6	---	---	9.9	8.6	---	---	---	---	8.4	7.8	9.1	7.6
7	---	---	9.8	8.7	---	---	---	---	8.4	7.6	9.0	7.6
8	---	---	10.0	8.3	---	---	---	---	8.4	7.6	8.9	7.4
9	---	---	---	---	---	---	---	---	8.4	7.8	8.6	7.0
10	---	---	---	---	---	---	---	---	8.4	7.6	8.6	7.0
11	---	---	---	---	---	---	8.9	8.4	8.4	7.6	8.6	7.0
12	10.0	9.2	---	---	---	---	9.2	8.2	8.4	7.4	---	---
13	10.9	8.6	---	---	9.5	8.4	9.1	8.2	8.2	7.4	---	---
14	10.1	8.5	---	---	9.6	8.5	9.1	8.2	8.6	7.6	---	---
15	10.1	8.5	---	---	9.7	8.6	9.0	8.1	8.4	7.2	---	---
16	10.0	8.6	---	---	9.5	8.5	9.0	8.0	9.1	7.4	---	---
17	9.9	8.5	8.8	8.4	9.4	8.3	9.0	8.2	9.2	8.0	---	---
18	9.9	8.6	9.4	8.2	---	---	9.4	8.4	9.1	8.0	---	---
19	10.1	9.0	9.4	8.4	9.3	8.4	9.2	8.4	9.1	8.0	---	---
20	10.4	9.0	9.3	8.4	9.5	8.4	9.2	8.0	9.1	7.8	9.6	7.0
21	10.3	8.9	9.2	8.5	9.5	8.3	9.2	8.2	8.8	8.0	9.4	7.0
22	10.5	8.8	9.4	8.4	9.4	8.2	9.0	8.0	8.9	7.9	9.5	7.0
23	10.7	8.9	---	---	9.4	8.4	9.0	8.0	8.8	7.8	9.6	6.8
24	10.8	8.9	9.3	8.3	---	---	9.0	8.0	8.8	7.8	9.5	6.9
25	10.9	9.2	9.6	8.5	---	---	8.8	7.2	8.8	7.8	9.7	6.9
26	10.8	9.2	---	---	---	---	8.6	7.4	8.8	7.8	9.8	7.4
27	10.7	9.0	---	---	---	---	8.6	7.2	8.8	7.6	---	---
28	10.9	9.2	---	---	---	---	8.6	7.2	8.8	7.7	9.9	6.9
29	10.9	9.3	9.3	8.6	---	---	8.6	7.0	8.8	7.8	9.9	6.9
30	11.2	9.3	9.5	8.4	---	---	8.8	7.0	9.0	7.8	10.0	6.9
31	---	---	9.7	8.8	---	---	9.2	7.0	8.7	7.7	---	---
MONTH									11.6	6.8		

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	11.3	8.7	10.7	8.9	12.2	9.2	11.6	8.6	12.4	9.0	11.1	8.4
2	10.9	8.4	10.7	8.7	11.9	9.1	11.7	8.8	12.3	9.1	10.7	8.6
3	11.2	8.2	10.7	8.6	10.6	9.1	11.7	9.0	12.1	9.2	---	---
4	10.0	8.6	10.7	8.6	12.0	8.8	11.8	8.8	12.2	9.5	---	---
5	10.9	8.6	10.8	8.5	11.5	8.9	11.8	8.6	12.2	9.6	---	---
6	10.8	8.7	10.8	8.4	11.4	8.8	12.0	8.6	12.3	9.6	---	---
7	10.7	8.5	10.6	8.5	11.4	8.8	11.8	9.4	12.1	9.2	---	---
8	10.4	8.5	11.2	8.8	11.4	8.8	12.0	9.6	11.8	9.1	---	---
9	10.9	8.7	11.2	8.8	11.3	8.8	12.4	9.4	11.9	9.0	---	---
10	10.9	8.5	11.4	8.8	11.2	8.8	12.3	9.2	11.6	9.0	---	---
11	10.6	8.6	11.4	8.8	11.1	8.4	12.2	9.0	12.0	9.1	---	---
12	11.0	8.6	11.7	8.8	11.4	8.5	12.5	9.2	12.0	9.0	---	---
13	11.0	8.5	12.1	8.6	10.8	8.6	12.5	9.1	11.9	8.4	---	---
14	11.0	8.7	11.6	8.5	11.0	8.7	12.4	9.3	12.0	7.4	---	---
15	11.0	8.6	11.8	8.5	11.0	8.5	12.6	9.2	12.1	7.4	---	---
16	11.0	8.7	11.5	8.7	11.1	8.9	12.6	9.1	11.4	7.7	---	---
17	10.8	8.9	11.7	8.8	11.5	9.3	12.6	9.0	12.0	7.3	---	---
18	11.0	9.0	12.2	8.9	11.6	9.0	12.8	8.8	11.7	8.0	---	---
19	10.9	8.9	12.2	9.1	11.5	8.7	12.5	8.7	11.7	8.0	---	---
20	10.9	8.8	12.3	8.8	11.3	8.7	13.3	9.0	11.7	8.3	---	---
21	10.9	8.9	12.2	8.8	10.9	8.7	12.2	8.8	11.5	8.4	---	---
22	11.1	9.0	12.0	8.6	11.6	9.0	12.8	9.1	11.3	8.4	---	---
23	11.0	8.8	12.4	8.6	11.9	9.6	12.8	9.2	11.1	8.4	---	---
24	10.3	8.7	12.0	8.6	11.8	9.2	13.1	8.9	10.9	8.4	---	---
25	10.9	8.9	10.8	8.8	11.4	9.1	12.8	8.8	10.8	8.5	---	---
26	10.9	8.8	12.0	9.3	11.7	8.9	12.4	8.2	10.7	8.5	---	---
27	10.9	8.8	12.2	8.9	11.4	8.9	12.5	8.6	10.7	8.5	---	---
28	10.8	8.7	12.2	9.0	11.6	9.2	13.3	8.2	10.8	8.5	---	---
29	10.7	8.6	11.7	8.8	11.8	8.7	12.8	8.7	---	---	---	---
30	11.2	8.7	12.0	9.0	11.8	8.6	12.9	9.2	---	---	---	---
31	11.0	8.8	---	---	11.8	8.7	12.2	9.0	---	---	---	---
MONTH	11.3	8.2	12.4	8.4	12.2	8.4	13.3	8.2	12.4	7.3	11.1	8.4
YEAR	13.3	7.3										

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.94	2	.00	.90	32	.08	1.2	11	.04
2	.94	32	.08	.96	32	.08	1.2	---	.03
3	1.0	---	.06	.97	---	.07	1.2	6	.02
4	1.0	15	.04	1.0	16	.04	1.1	---	.02
5	1.0	---	.04	1.0	---	.05	1.1	6	.02
6	.95	12	.03	1.0	---	.06	1.1	---	.03
7	.95	---	.03	1.1	---	.07	1.1	11	.03
8	1.0	11	.03	1.1	25	.07	1.1	---	.04
9	1.0	---	.03	1.1	---	.06	1.1	---	.04
10	.95	---	.03	1.1	16	.05	1.1	---	.03
11	1.0	13	.04	1.1	---	.05	1.1	---	.04
12	1.0	---	.06	1.0	---	.06	1.1	---	.04
13	1.0	27	.07	1.0	20	.05	1.1	---	.02
14	.95	---	.05	1.0	23	.06	1.1	---	---
15	.95	9	.02	1.0	---	.06	1.2	---	.01
16	.95	---	.03	1.0	---	.06	1.2	10	.03
17	.95	10	.03	1.0	19	.05	1.2	---	---
18	.89	---	.03	1.1	---	.07	1.2	---	---
19	.89	11	.03	1.1	---	.08	1.2	---	---
20	.89	---	.04	1.1	29	.09	1.2	---	---
21	.89	18	.04	1.1	---	.06	1.2	---	---
22	.89	---	.04	1.1	11	.03	1.2	1	.00
23	.89	14	.03	1.1	---	.04	1.3	---	---
24	.89	---	.03	1.1	12	.04	1.3	3	.01
25	.89	8	.02	1.1	31	.09	1.3	---	.02
26	.89	---	.04	1.1	---	.08	1.3	10	.04
27	.89	---	.07	1.2	20	.06	1.3	---	.02
28	.96	---	.09	1.2	---	.06	1.3	3	.01
29	.96	38	.10	1.2	14	.05	1.3	---	.01
30	.96	42	.11	1.2	---	.05	1.3	4	.01
31	.96	---	.10	---	---	---	1.3	---	.01
TOTAL	29.27	---	1.44	32.03	---	1.82	37.0	---	0.57
		JANUARY			FEBRUARY			MARCH	
1	1.3	0	.00	1.5	18	.07	1.7	28	.13
2	1.3	---	.01	1.5	---	.07	1.7	27	.12
3	1.3	2	.00	1.5	16	.06	1.7	---	.15
4	1.3	---	.01	1.4	---	.09	1.6	52	.22
5	1.3	0	.00	1.4	---	.09	1.6	---	.15
6	1.3	---	.02	1.4	---	.09	1.6	---	.10
7	1.3	18	.06	1.4	---	.10	1.5	19	.08
8	1.3	16	.06	1.4	---	.10	1.5	---	.06
9	1.3	---	.06	1.4	---	.10	1.5	---	.06
10	1.3	19	.07	1.4	---	.10	1.6	18	.08
11	1.3	---	.07	1.4	---	.10	1.6	---	.09
12	1.3	23	.08	1.4	---	.10	1.6	---	.10
13	1.3	---	.07	1.4	---	.10	1.6	54	.23
14	1.3	12	.04	1.6	---	.15	1.7	---	.15
15	1.3	---	.03	1.7	---	.15	1.7	---	.15
16	1.3	8	.03	1.8	---	.20	1.7	42	.19
17	1.4	---	.03	1.9	---	.25	1.7	---	.20
18	1.4	13	.05	1.8	64	.31	1.7	---	.20
19	1.4	---	.03	1.8	128	.62	1.6	61	.26
20	1.4	10	.04	2.0	128	.69	1.6	---	.25
21	1.4	---	.04	2.2	134	.81	1.6	---	.25
22	1.4	---	.05	2.8	134	1.6	1.6	59	.25
23	1.4	13	.05	2.1	135	.90	1.6	---	.15
24	1.4	---	.05	1.8	80	.39	1.6	---	.09
25	1.4	18	.07	1.8	72	.35	1.6	10	.04
26	1.5	---	.07	1.8	64	.31	1.6	---	.05
27	1.4	30	.11	1.8	38	.18	1.6	---	.06
28	1.5	---	.07	1.8	20	.10	1.6	23	.10
29	1.4	---	.08	---	---	---	1.7	---	.09
30	1.5	22	.09	---	---	---	1.7	---	.10
31	1.5	---	.08	---	---	---	1.7	36	.17
TOTAL	42.2	---	1.52	47.2	---	8.18	50.4	---	4.32

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	1.7	---	.10	1.8	---	.05	1.5	---	.06
2	1.7	---	.09	1.8	---	.05	1.5	---	.04
3	1.7	---	.08	1.8	---	.05	1.5	7	.03
4	1.7	---	.07	1.8	---	.05	1.5	---	.05
5	1.7	---	.06	1.6	9	.04	1.5	---	.09
6	1.8	16	.08	1.6	---	.06	1.5	34	.14
7	1.7	---	.05	1.6	---	.08	1.5	---	.15
8	1.7	---	.05	1.6	23	.10	1.5	---	.15
9	1.6	---	.05	1.5	---	.09	1.7	38	.17
10	1.6	---	.05	1.5	---	.07	1.5	---	.15
11	1.6	---	.05	1.4	---	.05	1.5	37	.15
12	1.6	---	.05	1.4	9	.03	1.5	---	.15
13	1.6	---	.05	1.5	---	.04	1.5	---	.10
14	1.6	---	.05	1.5	---	.05	1.5	---	.10
15	1.7	---	.05	1.5	---	.06	1.5	23	.09
16	1.6	---	.05	1.5	15	.06	1.5	---	.09
17	1.6	---	.05	1.6	---	.10	1.5	---	.08
18	1.6	---	.05	1.5	---	.15	1.5	---	.07
19	1.6	---	.05	1.6	48	.21	1.5	18	.07
20	1.7	---	.05	1.5	---	.20	1.5	---	.07
21	1.8	---	.05	1.5	---	.15	1.6	---	.06
22	1.8	---	.05	1.5	34	.14	1.4	15	.06
23	1.8	---	.05	1.5	---	.10	1.3	---	.05
24	1.8	---	.05	1.5	---	.10	1.3	---	.04
25	1.8	---	.05	1.5	---	.10	1.3	---	.04
26	1.8	---	.05	1.5	23	.09	1.3	11	.04
27	1.8	---	.05	1.5	---	.09	1.3	---	.03
28	1.8	---	.05	1.5	---	.09	1.3	---	.02
29	1.8	---	.05	1.6	---	.09	1.3	---	.01
30	1.8	---	.05	1.6	20	.09	1.3	1	.00
31	---	---	---	1.6	---	.08	---	---	---
TOTAL	51.1	---	1.68	48.4	---	2.71	43.6	---	2.35
		JULY			AUGUST			SEPTEMBER	
1	1.4	---	.01	1.2	---	.10	1.1	---	.07
2	1.4	---	.01	1.2	32	.10	1.1	---	.09
3	1.3	---	.01	1.2	---	.10	1.1	38	.11
4	1.3	2	.00	1.2	---	.10	1.1	---	.15
5	1.3	---	.03	1.2	---	.15	1.2	---	.15
6	1.3	22	.08	1.2	---	.15	1.2	50	.16
7	1.3	---	.10	1.2	47	.15	1.2	---	.15
8	1.3	34	.12	1.3	---	.10	1.2	---	.10
9	1.3	---	.14	1.3	---	.10	1.2	---	.07
10	1.3	---	.16	1.3	---	.08	1.2	16	.05
11	1.3	---	.18	1.2	---	.07	1.2	---	.06
12	1.3	---	.20	1.3	16	.06	1.3	---	.07
13	1.3	60	.21	1.2	---	.06	1.3	---	.08
14	1.3	---	.20	1.2	---	.06	1.2	25	.08
15	1.3	---	.20	1.2	---	.07	1.1	18	.05
16	1.3	---	.20	1.2	---	.07	1.0	16	.04
17	1.3	---	.15	1.2	21	.07	1.0	---	.04
18	1.3	46	.16	1.3	29	.10	1.0	17	.05
19	1.3	---	.15	1.1	23	.07	1.0	---	.03
20	1.3	---	.15	1.1	---	.09	1.0	---	.03
21	1.3	---	.10	1.2	37	.12	.94	12	.03
22	1.2	---	.10	1.2	---	.10	.94	---	.02
23	1.2	29	.09	1.2	36	.12	.94	---	.03
24	1.2	---	.09	1.2	---	.10	.88	17	.04
25	1.2	---	.09	1.2	---	.15	.74	60	.07
26	1.2	---	.10	1.2	---	.15	.53	---	.04
27	1.2	---	.10	1.2	43	.14	.59	---	.04
28	1.2	34	.11	1.2	---	.10	.66	24	.04
29	1.2	---	.10	1.2	---	.08	.74	---	.04
30	1.2	---	.10	1.2	---	.06	.74	---	.03
31	1.2	---	.10	1.2	16	.05	---	---	---
TOTAL	39.5	---	3.54	37.5	---	3.02	30.40	---	2.01
YEAR	488.60		33.16						

09306036 SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°49'30", long 108°11'54", in NW¼NW¼ sec.5, T.3 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 1,400 ft (430 m) upstream from mouth and 14.8 mi (23.8 km) west of Rio Blanco.

DRAINAGE AREA.--3.62 mi^2 (9.38 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Streamflow records, April 1974 to current year. Water-quality data available, April 1974 to September 1981.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,372 ft (1,942.2 m), from topographic map. Prior to April 23, 1981, at site 300 ft (91 m) downstream at datum 6.68 ft (2.036 m) lower.

REMARKS.--Records excellent except for periods of flow, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59 ft^3/s (1.67 m^3/s) Sept. 3, 1977, gage height, 2.92 ft (0.890 m), at former site, from rating curve extended above 40 ft^3/s (1.13 m^3/s), from slope-area measurement, maximum gage height at present site, 8.88 ft (2.707 m) Sept. 5, 1982; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8.5 ft^3/s (0.24 m^3/s) at 1300 Sept. 5, gage height, 8.88 ft (2.707 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

AUG. 2	0.02	AUG. 17	0.02	SEPT. 9	0.21	SEPT. 29	0.03	SEPT. 30	0.01

CAL YR 1981	TOTAL 0.01	MEAN 0.000	MAX 0.01	MIN 0.00	AC-FT 0.2
WTR YR 1982	TOTAL 0.29	MEAN 0.001	MAX 0.21	MIN 0.00	AC-FT 0.6

09306036 SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to September 30, 1982 (discontinued).

INSTRUMENTATION.--Water-quality monitor since October 1974 to September 1981. Pumping sediment sampler since October 1974.

REMARKS.--No water-quality data for the five days of flow in 1982 water year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily, 8,020 mg/L Sept. 3, 1977; no flow many days during each year.
SEDIMENT LOADS: Maximum daily, 424 tons (385 t) Sept. 3, 1977; no flow many days during each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily, 2,290 mg/L Aug. 2; no flow many days during year.
SEDIMENT LOADS: Maximum daily, 14 tons (13 t) Sept. 9; no flow many days during year.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	.00			.00	---	---	.00	---	---
2	.00			.02	2290	1.6	.00	---	---
3	.00			.00	---	---	.00	---	---
4	.00			.00	---	---	.00	---	---
5	.00			.00	---	---	.00	---	---
6	.00			.00	---	---	.00	---	---
7	.00			.00	---	---	.00	---	---
8	.00			.00	---	---	.00	---	---
9	.00			.00	---	---	.21	2080	14
10	.00			.00	---	---	.00	---	---
11	.00			.00	---	---	.00	---	---
12	.00			.00	---	---	.00	---	---
13	.00			.00	---	---	.00	---	---
14	.00			.00	---	---	.00	---	---
15	.00			.00	---	---	.00	---	---
16	.00			.00	---	---	.00	---	---
17	.00			.02	---	1.5	.00	---	---
18	.00			.00	---	---	.00	---	---
19	.00			.00	---	---	.00	---	---
20	.00			.00	---	---	.00	---	---
21	.00			.00	---	---	.00	---	---
22	.00			.00	---	---	.00	---	---
23	.00			.00	---	---	.00	---	---
24	.00			.00	---	---	.00	---	---
25	.00			.00	---	---	.00	---	---
26	.00			.00	---	---	.00	---	---
27	.00			.00	---	---	.00	---	---
28	.00			.00	---	---	.00	---	---
29	.00			.00	---	---	.03	---	2.0
30	.00			.00	---	---	.01	---	1.0
31	.00			.00	---	---	---	---	---
TOTAL	0.00			0.04	---	3.1	0.25	---	17.0
YEAR	0.29		20.1						

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

09306039 COTTONWOOD GULCH NEAR RIO BLANCO, CO

LOCATION.--Lat 39°49'36", long 108°12'25", in SW¼SE¼ sec.31, T.2 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 800 ft (240 m) upstream from mouth and 15.4 mi (24.8 km) west of Rio Blanco.

DRAINAGE AREA.--1.20 mi² (3.11 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,353 ft (1,936 m), from topographic map.

REMARKS.--Records excellent except for day of flow, which is poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53 ft³/s (1.50 m³/s) Sept. 3, 1977, gage height, 2.94 ft (0.896 m); no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22 ft³/s (0.62 m³/s) probably occurred Mar. 17, gage height, 2.54 ft (0.732 m) from recorded range in stage; no flow most of the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

MAR. 17 0.10

CAL YR 1981	TOTAL 0.00	MEAN 0.00	MAX 0.00	MIN 0.00	AC-FT 0.00
WTR YR 1982	TOTAL 0.10	MEAN 0.00	MAX 0.10	MIN 0.00	AC-FT 0.20

NOTE.--NO GAGE-HEIGHT RECORD MAR. 15-24.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to September 1981 (discontinued).
WATER TEMPERATURE: April 1974 to September 1981 (discontinued).
SUSPENDED-SEDIMENT DISCHARGE: April 1974 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor since April 1976. Automatic pumping sediment sampler since April 1974.

REMARKS.--No water quality samples were collected this year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 225 micromhos Mar. 24, 1976; minimum, 124 micromhos Mar. 27, 1976.
WATER TEMPERATURES: Maximum, 25.0°C Mar. 27, 1976; minimum, 4.5°C Mar. 24, 1976.
SEDIMENT CONCENTRATIONS: Maximum daily, 62,000 mg/L estimated Sept. 3, 1977; no flow many days each year.
SEDIMENT LOADS: Maximum daily, 200 tons (181 t) estimated Sept. 3, 1977; no flow many days each year.

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO

LOCATION.--Lat 39°50'01", long 108°13'12", in SE¼NE¼ sec.36, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 600 ft (180 m) upstream from mouth and 16.2 mi (26.1 km) west of Rio Blanco.

DRAINAGE AREA.--1.06 mi^2 (2.75 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

REVISED RECORDS.--WDR CO-79-3: 1977(M).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,335 ft (1,931 m), from topographic map. Nov. 10, 1980 to June 10, 1981 at datum 0.21 ft (0.064 m) lower.

REMARKS.--Records poor except those for days of no flow which are excellent. All flow due to discharge of settling ponds on tract Cb.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 384 ft^3/s (10.9 m^3/s), Sept. 3, 1977, gage height, 2.57 ft (0.783 m), result of slope-area measurement of peak flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30 ft^3/s (0.85 m^3/s) at 1000 Aug. 2, gage height, 3.53 ft (0.076 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.71	.80
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.3	.60
3	.77	.00	.00	.00	.00	.00	.00	.00	.00	.00	.96	.27
4	.95	.00	.00	.00	.00	.00	.00	.00	.00	.06	1.0	.39
5	.90	.00	.00	.00	.00	.00	.00	.00	.00	.73	.77	.49
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.3	.93	.44
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.5	.67	.41
8	.75	.00	.00	.00	.00	.00	.00	.00	.00	1.3	.77	.37
9	.43	.00	.00	.00	.00	.00	.00	.00	.00	.60	.67	.37
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.70	.67	.32
11	.57	.00	.00	.00	.00	.00	.00	.00	.00	.77	.58	.97
12	.15	.00	.00	.00	.00	.00	.00	.00	.00	.90	1.0	.53
13	.50	.00	.00	.00	.00	.00	.00	.00	.00	1.2	.97	1.0
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.80	.82	1.1
15	.65	.00	.00	.00	.00	.00	.00	.00	.00	.77	.71	.88
16	.63	.00	.00	.00	.00	.00	.00	.00	.00	.77	.62	.38
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.82	.52	.54
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.77	.86	.70
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.77	.99	.77
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.77	.88	.69
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.82	.79	.72
22	.00	.00	.00	.00	.10	.00	.00	.00	.00	.82	.80	.71
23	.00	.00	.00	.00	.15	.00	.00	.00	.00	.77	.92	.67
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.82	.92	.70
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.77	.84	.70
26	.00	.00	.00	.07	.00	.00	.00	.00	.00	.71	1.0	.70
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.53	1.1	.80
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.67	1.1	.80
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.67	.91	.80
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.71	.85	.80
31	.00	---	.00	.00	---	.00	---	.00	---	.71	.72	---
TOTAL	6.30	.00	.00	.07	.25	.00	.00	.00	.00	22.53	27.35	19.42
MEAN	.20	.000	.000	.002	.009	.000	.000	.000	.000	.73	.88	.65
MAX	.95	.00	.00	.07	.15	.00	.00	.00	.00	1.5	2.3	1.1
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.52	.27
AC-FT	12	.00	.00	.1	.5	.00	.00	.00	.00	45	54	39

CAL YR 1981 TOTAL 423.10 MEAN 1.16 MAX 3.2 MIN .00 AC-FT 839
WTR YR 1982 TOTAL 75.92 MEAN .21 MAX 2.3 MIN .00 AC-FT 151

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to current year.
pH: Feb. to Sept. 1981 (discontinued).
WATER TEMPERATURE: April 1974 to current year.
SUSPENDED-SEDIMENT DISCHARGE: April 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1974. Pumping sediment sampler since April 1974.

REMARKS.--Daily maximum and minimum values of specific conductance are available in the district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,570 micromhos Sept. 16, 1980; minimum observed, 220 micromhos Jan. 26, 1982.
WATER TEMPERATURES: Maximum, 33.5°C July 23, 1981; minimum, 0.0°C Sept. 6, 1980.
SEDIMENT CONCENTRATIONS: Maximum daily, 28,000 mg/L estimated Sept. 3, 1978; no flow many days each year.
SEDIMENT LOADS: Maximum daily, 900 tons (820 t) estimated Sept. 3, 1978; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum not determined; minimum observed, 220 micromhos Jan. 26, 1982.
WATER TEMPERATURES: Maximum, 31.5°C Aug. 18; minimum, 0.0°C Jan. 26, Feb. 22, 23.
SEDIMENT CONCENTRATIONS: Maximum daily, 11,700 mg/L Aug. 3; no flow many days during year.
SEDIMENT LOADS: Maximum daily, 50 tons (45 t) estimated Aug. 2; no flow many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	ALKALINITY LAB (MG/L AS CACO3)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
JUL												
28...	1436	.88	1950	2010	9.0	19.0	7.8	1030	50	10	6.1	480
SEP												
21...	1255	.82	2110	2180	9.1	23.5	6.5	1190	49	9.2	6.2	560

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN DISSOLVED (MG/L AS N)
JUL												
28...	30	1.9	80	7.6	18	15	1240	1.7	3.0	1.0	.120	2.0
SEP												
21...	35	1.7	21	8.2	--	15	1340	1.8	3.0	.81	.070	2.7

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	PHENOLS (UG/L)	STRONTIUM, DISSOLVED (UG/L AS SR)
JUL											
28...	.88	1.0	.440	2	710	40	10	4.7	2.1	3	880
SEP											
21...	1.8	1.9	.030	1	780	40	10	4.1	.5	<1	900

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUL					
14...	1305	.77	387	.80	--
15...	1230	.88	337	.80	--
AUG					
03...	1250	.77	32400	67	44
17...	1405	.58	89	.14	--
AUG					
17...	1600	.53	305	.44	--
SEP					
21...	1255	.82	64	.15	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				---	---					---	1950	---
2				---	---					---	1790	---
3				---	---					---	1890	---
4				---	---					1960	---	---
5				---	---					---	---	---
6				---	---					---	---	---
7				---	---					---	---	---
8				---	---					---	---	---
9				---	---					---	---	---
10				---	---					1970	---	---
11				---	---					1920	---	---
12				---	---					---	---	---
13				---	---					---	---	---
14				---	---					1950	---	---
15				---	---					1900	---	1910
16				---	---					1940	---	1950
17				---	---					1950	1940	1800
18				---	---					1950	1970	1840
19				---	---					---	1960	2050
20				---	---					1940	1970	2040
21				---	---					1960	1970	2040
22				---	300					2020	1950	2050
23				---	315					2000	1940	2040
24				---	---					1960	1960	1990
25				---	---					1880	1920	1980
26				220	---					1930	1920	2020
27				---	---					1950	1860	1990
28				---	---					1890	1930	1950
29				---	---					1930	1980	1940
30				---	---					1940	2000	1930
31				---	---					1940	1960	---

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1							---	---	---	---		
2							---	---	---	---		
3							---	---	---	---		
4							---	---	---	---		
5							---	---	---	---		
6							---	---	---	---		
7							---	---	---	---		
8							---	---	---	---		
9							---	---	---	---		
10							---	---	---	---		
11							---	---	---	---		
12							---	---	---	---		
13							---	---	---	---		
14							---	---	---	---		
15							---	---	---	---		
16							---	---	---	---		
17							---	---	---	---		
18							---	---	---	---		
19							---	---	---	---		
20							---	---	---	---		
21							---	---	---	---		
22							---	---	3.0	.0		
23							---	---	1.0	.0		
24							---	---	---	---		
25							---	---	---	---		
26							.0	.0	---	---		
27							---	---	---	---		
28							---	---	---	---		
29							---	---	---	---		
30							---	---	---	---		
31							---	---	---	---		
MONTH							.0	.0	3.0	.0		

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1							---	---	29.5	14.0	27.5	11.5
2							---	---	25.0	16.5	27.0	10.5
3							---	---	27.5	15.5	27.0	10.0
4							16.5	10.5	29.5	14.5	25.0	11.5
5							22.5	10.5	29.5	14.0	25.0	14.5
6							27.0	9.5	30.5	14.5	27.0	12.0
7							27.5	9.5	31.0	14.5	22.0	12.5
8							24.0	10.5	28.5	15.0	23.0	12.5
9							26.5	10.0	29.5	15.5	21.0	12.0
10							29.5	10.5	28.5	14.5	23.5	13.5
11							29.5	13.0	28.5	16.0	16.0	12.5
12							30.0	10.0	22.0	16.5	21.5	11.5
13							28.0	10.0	23.5	15.5	14.0	10.5
14							28.5	10.5	26.0	16.0	15.0	9.5
15							27.0	11.5	28.5	16.0	22.0	9.5
16							27.5	12.0	28.0	16.5	23.5	9.0
17							27.0	15.0	30.5	15.5	21.5	11.5
18							28.0	13.0	31.5	16.0	23.5	10.5
19							29.5	12.5	31.0	15.5	20.5	11.5
20							28.0	12.5	29.5	16.0	23.0	11.0
21							28.5	13.5	30.0	17.5	24.0	11.0
22							30.5	16.0	25.5	16.5	23.5	11.5
23							29.5	16.0	29.5	15.0	24.5	11.0
24							27.5	16.0	30.5	16.0	23.0	10.0
25							29.0	15.5	22.5	15.0	18.5	12.0
26							29.0	16.5	26.5	13.5	21.0	14.0
27							26.5	17.5	25.5	13.5	16.5	9.5
28							23.5	17.0	25.5	14.0	13.5	9.0
29							28.0	17.0	25.0	14.5	15.0	8.5
30							30.5	15.0	27.5	14.0	15.5	9.0
31							30.0	14.0	25.0	11.5	---	---
MONTH							30.5	9.5	31.5	11.5	27.5	8.5
YEAR	31.5	.0										

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.00	---	---	.00			.00		
2	.00	---	---	.00			.00		
3	.77	112	.78	.00			.00		
4	.95	91	.56	.00			.00		
5	.90	225	.99	.00			.00		
6	.00	---	---	.00			.00		
7	.00	---	---	.00			.00		
8	.75	129	.57	.00			.00		
9	.43	---	.20	.00			.00		
10	.00	---	---	.00			.00		
11	.57	55	.22	.00			.00		
12	.15	---	.05	.00			.00		
13	.50	39	.12	.00			.00		
14	.00	---	---	.00			.00		
15	.65	434	3.3	.00			.00		
16	.63	---	.50	.00			.00		
17	.00	---	---	.00			.00		
18	.00	---	---	.00			.00		
19	.00	---	---	.00			.00		
20	.00	---	---	.00			.00		
21	.00	---	---	.00			.00		
22	.00	---	---	.00			.00		
23	.00	---	---	.00			.00		
24	.00	---	---	.00			.00		
25	.00	---	---	.00			.00		
26	.00	---	---	.00			.00		
27	.00	---	---	.00			.00		
28	.00	---	---	.00			.00		
29	.00	---	---	.00			.00		
30	.00	---	---	.00			.00		
31	.00	---	---	---			.00		
TOTAL	6.30	---	7.29	0.00			0.00		

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	.00		---	.00		---	.00		
2	.00		---	.00		---	.00		
3	.00		---	.00		---	.00		
4	.00		---	.00		---	.00		
5	.00		---	.00		---	.00		
6	.00		---	.00		---	.00		
7	.00		---	.00		---	.00		
8	.00		---	.00		---	.00		
9	.00		---	.00		---	.00		
10	.00		---	.00		---	.00		
11	.00		---	.00		---	.00		
12	.00		---	.00		---	.00		
13	.00		---	.00		---	.00		
14	.00		---	.00		---	.00		
15	.00		---	.00		---	.00		
16	.00		---	.00		---	.00		
17	.00		---	.00		---	.00		
18	.00		---	.00		---	.00		
19	.00		---	.00		---	.00		
20	.00		---	.00		---	.00		
21	.00		---	.00		---	.00		
22	.00		---	.10		.02	.00		
23	.00		---	.15		.03	.00		
24	.00		---	.00		---	.00		
25	.00		---	.00		---	.00		
26	.07		.02	.00		---	.00		
27	.00		---	.00		---	.00		
28	.00		---	.00		---	.00		
29	.00		---	---			.00		
30	.00		---	---			.00		
31	.00		---	---			.00		
TOTAL	0.07		0.02	0.25		0.05	0.00		

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	.00			.00			.00		
2	.00			.00			.00		
3	.00			.00			.00		
4	.00			.00			.00		
5	.00			.00			.00		
6	.00			.00			.00		
7	.00			.00			.00		
8	.00			.00			.00		
9	.00			.00			.00		
10	.00			.00			.00		
11	.00			.00			.00		
12	.00			.00			.00		
13	.00			.00			.00		
14	.00			.00			.00		
15	.00			.00			.00		
16	.00			.00			.00		
17	.00			.00			.00		
18	.00			.00			.00		
19	.00			.00			.00		
20	.00			.00			.00		
21	.00			.00			.00		
22	.00			.00			.00		
23	.00			.00			.00		
24	.00			.00			.00		
25	.00			.00			.00		
26	.00			.00			.00		
27	.00			.00			.00		
28	.00			.00			.00		
29	.00			.00			.00		
30	.00			.00			.00		
31	---			.00			---		
TOTAL	0.00			0.00			0.00		
		JULY			AUGUST			SEPTEMBER	
1	.00	---	---	.71	---	1.0	.80	---	.50
2	.00	---	---	2.3	---	50	.60	---	.30
3	.00	---	---	.96	11700	25	.27	---	.05
4	.06	---	1.0	1.0	---	15	.39	---	.05
5	.73	11000	22	.77	---	2.0	.49	---	.05
6	1.3	---	25	.93	---	1.0	.44	---	.05
7	1.5	---	20	.67	---	.50	.41	---	.05
8	1.3	---	10	.77	---	.50	.37	---	.05
9	.60	---	1.0	.67	---	.50	.37	---	.05
10	.70	---	1.0	.67	---	.50	.32	---	.05
11	.77	---	1.0	.58	---	.50	.97	---	1.0
12	.90	---	1.0	1.0	---	1.0	.53	---	.50
13	1.2	---	1.5	.97	---	1.0	1.0	---	1.0
14	.80	397	.86	.82	---	.80	1.1	---	1.0
15	.77	337	.70	.71	---	.50	.88	78	.18
16	.77	---	.50	.62	---	.50	.38	---	.05
17	.82	---	.30	.52	236	.33	.54	26	.04
18	.77	90	.19	.86	545	2.0	.70	42	.08
19	.77	---	.20	.99	552	1.5	.77	---	.10
20	.77	137	.28	.88	---	1.0	.69	---	.10
21	.82	---	.30	.79	---	.50	.72	64	.12
22	.82	---	.30	.80	---	.50	.71	---	.10
23	.77	136	.28	.92	---	1.0	.67	23	.04
24	.82	---	.30	.92	---	1.0	.70	---	.10
25	.77	1180	2.7	.84	---	.80	.70	---	.10
26	.71	1360	3.0	1.0	---	1.0	.70	65	.12
27	.53	---	1.0	1.1	---	1.0	.80	---	.20
28	.67	740	1.3	1.1	---	1.0	.80	125	.27
29	.67	---	1.0	.91	---	.80	.80	---	.20
30	.71	---	1.0	.85	---	.50	.80	---	.20
31	.71	---	1.0	.72	---	.50	---	---	---
TOTAL	22.53	---	98.71	27.35	---	113.73	19.42	---	6.70
YEAR	75.92		226.50						

09306045 PICEANCE CREEK BELOW GARDENHIRE GULCH, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°50'08", long 108°13'14", in SE¼NE¼ sec.36, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 300 ft (91 m) downstream from Piceance Creek tributary and 18.8 mi (14.2 km) west of Rio Blanco.

DRAINAGE AREA.--255 mi^2 (660 km^2).

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,310 ft (1,923 m), from topographic map.

REMARKS.--Records good. Diversions above and below station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120 ft^3/s (3.40 m^3/s) Aug. 12, 1982, gage height, 2.41 ft (0.735 m); minimum daily, 2.1 ft^3/s (0.059 m^3/s) Apr. 29, 30, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 120 ft^3/s (3.40 m^3/s) at 2100 Aug. 12, gage height, 2.41 ft (0.735 m); minimum daily, 2.1 ft^3/s (0.059 m^3/s) April 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	5.9	10	8.7	8.7	13	13	4.4	8.2	3.7	6.2	12
2	4.2	6.1	10	8.7	8.5	13	12	3.9	8.1	3.7	8.6	11
3	5.4	6.2	10	8.2	7.7	21	12	7.1	7.5	2.2	7.6	11
4	5.6	6.0	10	8.5	8.5	19	12	12	6.3	2.5	10	11
5	6.6	6.2	10	8.9	8.7	15	11	17	5.4	3.1	14	12
6	6.0	6.3	10	8.0	8.7	12	12	13	6.8	4.7	13	15
7	5.7	7.5	10	8.5	8.7	13	12	8.2	7.5	5.2	15	13
8	6.2	8.4	10	8.5	8.7	12	11	5.3	6.0	5.6	14	13
9	5.5	9.0	10	8.5	8.7	12	11	3.6	7.9	8.3	14	14
10	5.6	8.8	10	8.5	8.7	12	11	5.5	8.3	7.4	15	13
11	6.1	8.7	10	8.5	8.7	12	12	5.1	8.5	7.3	20	16
12	6.6	11	10	8.4	8.7	17	12	9.1	8.4	7.1	31	16
13	7.1	12	10	8.4	8.7	20	12	25	7.6	6.8	23	16
14	7.0	12	10	8.5	8.7	22	10	25	9.9	7.8	18	17
15	8.0	11	9.8	8.4	8.9	26	12	16	8.9	8.2	16	16
16	9.8	11	9.7	8.5	8.9	23	13	13	9.6	7.9	14	15
17	7.4	10	9.4	8.5	9.8	17	11	12	9.0	6.8	14	14
18	7.1	10	9.5	8.5	9.6	16	10	11	8.1	7.0	19	14
19	7.0	11	9.5	8.5	10	15	8.8	16	6.2	6.1	16	15
20	6.4	11	9.7	8.5	12	14	7.5	17	7.3	5.8	15	15
21	6.7	12	9.9	8.3	17	13	6.1	11	6.7	5.6	14	14
22	6.8	12	9.9	8.1	21	12	5.5	8.2	5.1	4.6	14	13
23	7.0	11	8.4	8.3	19	11	6.2	8.8	4.6	4.0	16	14
24	6.3	11	9.0	8.3	14	11	6.3	7.4	4.2	4.6	14	13
25	4.9	11	9.3	8.3	12	10	5.3	6.0	3.4	5.6	13	14
26	4.7	11	9.0	8.5	12	10	4.4	7.3	3.6	5.3	13	15
27	4.7	11	8.6	8.6	12	11	3.1	15	3.9	5.3	13	16
28	4.8	11	9.0	8.2	12	12	2.4	12	2.9	6.8	13	17
29	5.1	11	9.0	8.8	---	13	2.1	9.7	3.5	7.9	13	18
30	6.0	11	9.4	8.5	---	12	2.1	10	3.6	7.5	13	18
31	5.6	---	8.9	8.5	---	11	---	11	---	6.3	12	---
TOTAL	190.4	290.1	298.0	262.1	298.6	450	268.8	335.6	197.0	180.7	451.4	431
MEAN	6.14	9.67	9.61	8.45	10.7	14.5	8.96	10.8	6.57	5.83	14.6	14.4
MAX	9.8	12	10	8.9	21	26	13	25	9.9	8.3	31	18
MIN	4.2	5.9	8.4	8.0	7.7	10	2.1	3.6	2.9	2.2	6.2	11
AC-FT	378	575	591	520	592	893	533	666	391	358	895	855

CAL YR 1981 TOTAL 3265.9 MEAN 8.95 MAX 27 MIN 2.4 AC-FT 6480
WTR YR 1982 TOTAL 3653.7 MEAN 10.0 MAX 31 MIN 2.1 AC-FT 7250

09306052 SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°48'51", long 108°14'35", in SW¼SE¼ sec.2, T.3 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 2,100 ft (640 m) upstream from mouth and 16.8 mi (27.0 km) west of Rio Blanco.

DRAINAGE AREA.--7.97 mi² (20.64 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to September 1976, November 1977 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,434 ft (1,961.1 m), from topographic map.

REMARKS.--Records excellent except for days of flow which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9.2 ft³/s (0.26 m³/s) Feb. 20, 1982, gage height, 1.24 ft (0.378 m); maximum gage height, 1.65 ft (0.503 m), Mar. 4, 1975 (backwater from ice); no flow most days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.2 ft³/s (0.26 m³/s) at 1500 Feb. 20, gage height, 1.24 ft (0.378 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

OCT. 1	0.59	OCT. 3	1.2	FEB. 20	1.6	FEB. 21	0.59	FEB. 22	1.0	FEB. 23	0.59

CAL YR 1981	TOTAL 3.72	MEAN 0.010	MAX 1.5	MIN 0.00	AC-FT 7.4
WTR YR 1982	TOTAL 5.57	MEAN 0.015	MAX 1.6	MIN 0.00	AC-FT 11

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to September 1976, November 1977 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to September 1976, November 1977 to September 1981 (discontinued).
WATER TEMPERATURE: April 1974 to September 1976, November 1977 to September 1981 (discontinued).
SUSPENDED SEDIMENT DISCHARGE.--April 1974 to September 1976, November 1977 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor since April 1974. Automatic pumping sediment sampler since April 1974.

REMARKS.--No water quality samples collected this year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 674 micromhos Nov. 1, 1980; minimum, 147 micromhos July 29, 1978.
WATER TEMPERATURES: Maximum, 22.0°C July 29, 1978; minimum, 0.0°C Nov. 3, 1980.
SEDIMENT CONCENTRATIONS: Maximum daily, 49,000 mg/L July 29, 1978; no flow many days each year.
SEDIMENT LOADS: Maximum daily, 120 tons (109 t) estimated Sept. 30, 1981; no flow many days each year.

09306058 WILLOW CREEK NEAR RIO BLANCO, CO

LOCATION.--Lat 39°50'14", long 108°14'37", in NW¼NE¼ sec.35, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 1,500 ft (460 m) upstream from mouth and 17.4 mi (28.0 km) west of Rio Blanco.

DRAINAGE AREA.--48.4 mi^2 (125.4 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Concrete control since Aug. 9, 1974. Altitude of gage is 6,273 ft (1,912 m), from topographic map.

REMARKS.--Records good. Diversions above station for irrigation of about 315 acres (1.27 km^2).

AVERAGE DISCHARGE.--8 years, 1.96 ft^3/s (0.056 m^3/s) 1,420 acre-ft/yr (1.75 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23 ft^3/s (0.65 m^3/s) Sept. 3, 1977, gage height, 4.46 ft (1.359 m); no flow for many days in 1978, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6.0 ft^3/s (0.17 m^3/s) at 1630 Feb. 20, gage height, 3.32 ft (1.012 m); maximum gage height, 4.11 ft (1.253 m) at 1630 Feb. 7, (backwater from ice); minimum daily discharge, 0.03 ft^3/s (0.005 m^3/s) May 19, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.4	1.2	.90	2.2	3.1	2.9	2.5	.81	.62	.08	.73
2	1.2	1.4	1.4	.90	2.2	3.0	2.9	2.5	1.0	.43	.32	.73
3	1.4	1.4	1.5	.80	2.1	3.0	2.9	2.5	1.1	.50	.38	.72
4	1.4	1.4	1.4	.78	2.0	2.9	2.9	1.4	1.5	.78	.36	.70
5	1.6	1.4	1.4	.40	2.0	2.7	2.9	.19	1.8	.81	.40	.74
6	1.3	1.4	1.4	1.1	2.0	2.5	2.8	.15	.88	.88	.43	.70
7	1.2	1.4	1.4	1.1	2.0	2.5	2.9	.11	.40	.81	.48	.68
8	1.4	1.4	1.4	1.8	2.2	2.5	2.5	.18	.38	.88	.50	.71
9	1.4	1.4	1.4	1.5	2.5	2.5	2.7	.38	.23	.88	.56	.75
10	1.3	1.4	1.4	1.4	2.7	2.8	2.8	.15	.22	.88	.59	.75
11	1.3	1.4	1.4	1.7	2.7	2.8	2.9	.08	.43	.96	.59	1.0
12	1.4	1.4	1.4	1.9	2.8	2.9	2.9	.18	.78	1.0	.71	.89
13	1.4	1.5	1.4	1.9	2.8	2.9	2.9	.27	.88	.38	.71	1.1
14	1.4	1.4	1.4	1.9	2.8	3.0	2.9	.07	.88	.15	.71	.96
15	1.5	1.5	1.4	1.9	3.0	3.0	2.9	.18	.81	.15	.65	.87
16	1.6	1.4	1.4	1.9	3.2	3.0	2.9	.12	.62	.13	.65	.75
17	1.3	1.4	1.4	2.0	3.7	3.0	2.8	.05	.96	.13	.74	.74
18	1.4	1.5	1.3	1.9	3.7	3.0	2.9	.12	1.0	.13	.74	.76
19	1.3	1.4	1.6	1.9	4.0	3.0	2.9	.03	.96	.12	.72	.96
20	1.3	1.4	1.6	2.0	4.4	2.9	2.5	.05	.68	.12	.68	.93
21	1.4	1.5	1.6	2.0	4.4	2.9	2.5	.04	.62	.11	.67	.96
22	1.3	1.5	1.5	2.1	4.5	3.0	2.8	.04	1.2	.10	.68	1.1
23	1.3	1.5	1.0	1.8	4.1	3.0	2.8	.03	1.1	.10	.69	1.0
24	1.4	1.5	1.2	2.2	3.7	3.0	2.5	.04	.10	.11	.75	1.0
25	1.4	1.5	1.2	2.2	3.5	2.9	2.5	.04	.13	.11	.68	1.0
26	1.3	1.3	1.2	2.5	3.5	3.0	2.5	.08	.14	.10	.74	1.1
27	1.3	1.4	1.3	2.2	3.4	3.0	2.6	.14	.17	.14	.78	1.1
28	1.3	1.4	1.2	2.3	3.2	2.9	2.5	.10	.34	.15	.79	1.2
29	1.5	1.4	1.2	2.1	---	2.9	2.5	.23	.34	.11	.84	1.2
30	1.4	1.3	1.2	2.0	---	2.8	2.5	.32	.40	.09	.79	1.1
31	1.2	---	1.0	2.1	---	2.9	---	.23	---	.08	.76	---
TOTAL	42.1	42.6	41.8	53.18	85.3	89.3	82.4	12.50	20.86	11.94	19.17	26.93
MEAN	1.36	1.42	1.35	1.72	3.05	2.88	2.75	.40	.70	.39	.62	.90
MAX	1.6	1.5	1.6	2.5	4.5	3.1	2.9	2.5	1.8	1.0	.84	1.2
MIN	1.2	1.3	1.0	.40	2.0	2.5	2.5	.03	.10	.08	.08	.68
AC-FT	84	84	83	105	169	177	163	25	41	24	38	53

CAL YR 1981 TOTAL 554.47 MEAN 1.52 MAX 4.6 MIN .18 AC-FT 1100
WTR YR 1982 TOTAL 528.08 MEAN 1.45 MAX 4.5 MIN .03 AC-FT 1050

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1974 to current year.
pH: March 1976 to February 1982 (discontinued).
WATER TEMPERATURE: November 1974 to current year.
DISSOLVED OXYGEN: March 1976 to February 1982 (discontinued).
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1974. Pumping sediment sampler since October 1974.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,920 micromhos July 14, 1976; minimum, 528 micromhos Mar. 18, 1976.
pH: Maximum, 8.8 units Mar. 11, 1980; minimum, 7.4 units June 4, 6, 1980.
WATER TEMPERATURES: Maximum, 30.5°C July 4, 1982; minimum, 0.0°C on many days during winter months each year.
DISSOLVED OXYGEN: Maximum, 12.9 mg/L Mar. 29, 1979; minimum, 3.6 mg/L Sept. 29, 1978.
SEDIMENT CONCENTRATIONS: Maximum daily, 7,030 mg/L July 29, 1979; no flow many days during 1978.
SEDIMENT LOADS: Maximum daily, 61 tons (55 t) July 29, 30, 1979; no flow many days during 1978.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,640 micromhos June 11; minimum, 630 micromhos Feb. 17.
pH: Maximum, not determined; minimum, not determined.
WATER TEMPERATURES: Maximum, 30.5°C July 4; minimum, 0.0°C on many days during October to April.
DISSOLVED OXYGEN: Maximum, not determined; minimum not determined.
SEDIMENT CONCENTRATIONS: Maximum daily, 269 mg/L March 2; minimum daily, 2 mg/L Oct. 19.
SEDIMENT LOADS: Maximum daily, 2.5 tons (2.3 t) Feb. 20; minimum daily, 0.00 tons (0.00 t) several days during months of May and July.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 19...	1230	1.4	1270	1120	8.3	6.5	10.6	.36	24	K40	K16
NOV 24...	1145	1.5	1270	1240	8.3	5.0	11.4	1.2	--	--	--
DEC 30...	1045	1.2	1230	1190	8.2	.5	10.8	.76	--	--	--
MAY 19...	1210	.05	1170	1190	8.7	15.0	11.8	--	18	--	--
SEP 21...	1115	.81	370	1360	8.5	10.0	9.4	--	--	--	--

K BASED ON NON-IDEAL COLONY COUNT.

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT											
19...	280	510	85	71	130	2.6	1.4	380	.0	340	12
NOV											
24...	--	520	89	73	120	2.3	1.5	370	--	330	11
DEC											
30...	--	510	90	69	120	2.4	1.4	410	--	300	11
MAY											
19...	--	430	62	66	110	2.4	2.3	340	<.5	310	11
SEP											
21...	--	520	90	72	120	2.3	1.6	371	--	320	17

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT											
19...	.4	.00	16	888	1.2	3.4	.12	<.060	--	.24	<.010
NOV											
24...	.3	--	15	864	1.2	3.5	.32	.160	.73	.89	.010
DEC											
30...	.4	--	16	856	1.2	2.8	.35	.090	.32	.41	.060
MAY											
19...	.4	.01	8.0	777	1.1	.10	<.10	.080	.57	.65	.040
SEP											
21...	.2	--	17	859	1.2	1.9	<.10	.060	2.7	2.8	.020

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)
OCT									
19...	20	1	53	<1	0	1	<10	2	15
NOV									
24...	--	1	--	--	--	--	24	--	--
DEC									
30...	--	1	--	--	--	--	19	--	--
MAY									
19...	10	1	56	<3	<10	4	<9	2	18
SEP									
21...	--	1	--	--	--	--	4	--	--

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)
OCT									
19...	1	.0	<10	1	2900	9	<20	<.4	<8.6
NOV									
24...	3	--	--	--	--	--	--	--	--
DEC									
30...	5	--	--	--	--	--	--	--	--
MAY									
19...	3	<.1	9	1	2400	<12	<17	<.4	<11
SEP									
21...	3	--	--	--	3200	--	--	--	--

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)
OCT									
19...	<.4	<8.3	<.4	.06	2.2	3.1	.3	>.01	1
NOV									
24...	--	--	--	--	--	3.7	.2	--	--
DEC									
30...	--	--	--	--	--	2.8	.5	--	--
MAY									
19...	<.4	<11	<.4	.05	2.4	4.0	.6	<.01	1
SEP									
21...	--	--	--	--	--	3.0	.2	--	4

DATE	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	PCN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
OCT									
19...	.00	0	0	.0	.0	.0	.0	.1	.0
MAY									
19...	--	0	--	--	--	--	--	--	--

DATE	DI-AZINON, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDO-SULFAN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ETHION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA-THION, TOT. IN BOTTOM MATL. (UG/KG)
OCT									
19...	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAY									
19...	--	--	--	--	--	--	--	--	--

DATE	METHYL TRI-THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	PARA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TRI-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2,4-D, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2,4-DP, IN BOTTOM MAT. (UG/KG)	2,4,5-T TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SILVEX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
OCT									
19...	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAY									
19...	--	--	--	--	--	--	--	--	--

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
01...	1200	1.2	8	.03
15...	1250	1.5	11	.04
19...	1230	1.4	2	.00
NOV				
04...	1005	1.5	23	.09
17...	1300	1.5	12	.05
24...	1145	1.5	5	.02
DEC				
16...	1040	1.4	19	.07
30...	1045	1.2	14	.05
JAN				
20...	1630	2.2	62	.37
FEB				
18...	1240	2.9	94	.74
APR				
06...	1420	2.8	193	1.5
MAY				
06...	1130	.15	8	.00
19...	1210	.05	7	.00
JUN				
10...	1025	.22	28	.02
JUL				
12...	1450	.92	37	.09
AUG				
18...	1120	.74	20	.04
SEP				
21...	1115	.81	11	.02

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1280	1290	---	1220	1220	---	---	1210	---	---	1290	1300
2	1300	1290	---	1250	1230	---	---	---	---	---	1300	---
3	1290	1290	---	1260	1230	---	---	---	---	---	1350	1310
4	1280	1270	1260	1330	1310	---	---	---	---	---	1310	1300
5	1310	1270	1240	1320	1350	1210	---	---	---	---	1300	1290
6	1320	1240	1230	1330	1350	1220	1190	1240	---	---	1290	1300
7	1300	1230	1230	1360	1270	1220	1190	1240	---	---	1290	---
8	1280	1230	1220	1360	1230	1220	1190	1220	---	---	1290	---
9	1330	1240	1220	1300	1250	1220	1200	1070	---	---	1290	---
10	1310	1260	1200	1280	1200	1220	1200	1120	1400	---	1280	1280
11	1290	1250	1200	1240	1200	1200	1200	1110	1400	---	1280	1220
12	1300	1250	1190	1230	1240	1200	1200	1080	1350	1290	1280	1270
13	1290	1240	1180	1240	1210	1220	1200	1050	1340	1300	1270	1250
14	1290	1240	1180	1240	1180	---	1200	1170	1340	1320	1290	1270
15	1260	1240	1170	1240	1150	---	1210	1240	---	1320	1290	1270
16	1300	1250	1200	1230	1110	---	1200	1260	---	1320	1290	1310
17	1290	1280	1210	1240	1030	---	1180	1260	---	1310	1280	1300
18	1280	1290	1270	1240	1110	---	1160	1270	---	1310	1310	1290
19	1280	1310	1200	1240	---	---	1160	1250	---	1310	1300	1260
20	1280	1300	1200	1240	---	---	1210	1250	---	1300	1300	1280
21	1280	1290	1200	1230	---	---	1170	1260	---	1300	1300	1300
22	1280	1290	1220	1230	---	---	1160	1210	---	1300	1310	1280
23	1280	1280	1290	1260	---	---	1220	1170	---	1300	1310	1270
24	1280	1280	1360	1210	---	---	1200	1170	---	1290	1300	1270
25	1280	1310	1290	1220	---	---	1210	1180	---	1290	1290	1260
26	1280	1310	1320	1150	---	---	1210	---	---	1290	1300	1260
27	1270	1200	1240	1190	---	---	1220	---	---	1270	1320	1240
28	1270	1190	1320	1200	---	---	1220	---	---	1280	1310	1240
29	1260	1200	1290	1210	---	---	1220	---	---	1290	1310	1260
30	1230	1230	1200	1250	---	---	1210	---	---	1290	1300	1250
31	1280	---	1240	1230	---	---	---	---	---	1290	1310	---
MEAN	1290	1260	1230	1250			1200				1300	1270

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.7	8.2	8.4	8.2	---	---	8.4	8.3	8.4	8.4		
2	8.6	8.4	8.3	8.2	---	---	8.4	8.3	8.4	8.4		
3	8.5	8.4	8.4	8.2	---	---	8.4	8.3	8.5	8.4		
4	8.5	8.4	---	---	8.3	8.2	8.4	8.3	8.4	8.2		
5	8.5	8.4	---	---	8.3	8.3	8.4	8.3	8.4	8.3		
6	8.5	8.3	---	---	8.4	8.3	8.3	8.3	8.4	8.2		
7	8.4	8.3	---	---	8.4	8.3	8.3	8.2	8.4	8.3		
8	8.4	8.3	---	---	8.4	8.3	8.3	8.1	8.4	8.3		
9	8.4	8.3	---	---	8.4	8.3	8.3	8.2	8.5	8.3		
10	8.4	8.3	---	---	8.4	8.3	8.3	8.3	8.5	8.4		
11	8.4	8.3	---	---	8.4	8.3	8.3	8.2	8.5	8.4		
12	8.3	8.3	---	---	8.4	8.3	8.3	8.3	8.5	8.4		
13	8.3	8.2	---	---	8.4	8.3	8.3	8.3	8.5	8.4		
14	8.3	8.2	---	---	8.4	8.3	8.3	8.3	8.5	8.4		
15	8.4	8.2	---	---	8.4	8.3	8.3	8.3	8.5	8.4		
16	8.3	8.1	---	---	8.4	8.3	8.3	8.3	8.6	8.4		
17	8.2	8.1	8.5	8.5	8.4	8.3	8.4	8.3	8.6	8.3		
18	8.3	8.1	8.6	8.4	8.4	8.3	8.4	8.3	8.5	8.4		
19	8.4	8.2	8.6	8.4	8.4	8.3	8.3	8.3	---	---		
20	8.4	8.2	8.6	8.4	8.4	8.3	8.4	8.3	---	---		
21	8.4	8.2	8.5	8.3	8.4	8.3	8.4	8.3	---	---		
22	8.4	8.2	8.4	8.3	8.4	8.3	8.3	8.3	---	---		
23	8.4	8.2	8.4	8.3	8.4	8.2	8.4	8.3	---	---		
24	8.3	8.2	8.4	8.2	8.3	8.1	8.4	8.3	---	---		
25	8.3	8.2	8.4	8.2	8.4	8.3	8.4	8.3	---	---		
26	8.4	8.2	8.3	8.2	8.3	8.2	8.4	8.3	---	---		
27	8.4	8.2	8.3	8.2	8.4	8.2	8.4	8.3	---	---		
28	8.4	8.2	8.2	8.2	8.3	8.2	8.4	8.3	---	---		
29	8.3	8.2	8.2	8.2	8.3	8.2	8.5	8.3	---	---		
30	8.5	8.2	8.2	8.1	8.4	8.2	8.4	8.4	---	---		
31	8.4	8.1	---	---	8.4	8.3	8.4	8.4	---	---		
MONTH	8.7	8.1			8.4	8.1	8.5	8.1				
YEAR	8.7	8.1										

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.0	5.0	6.0	.0	---	---	2.5	.0	3.0	.5	---	---
2	11.5	8.0	7.5	.5	---	---	2.0	.0	3.5	.0	---	---
3	13.0	9.0	8.0	1.0	---	---	.0	.0	2.0	.0	---	---
4	9.5	8.0	8.5	3.5	1.5	.0	.5	.0	.5	.0	---	---
5	11.5	7.5	8.5	1.5	4.5	.5	3.0	.0	.0	.0	7.0	.5
6	13.5	5.0	8.0	2.0	4.5	.0	1.5	.0	.0	.0	9.5	.0
7	13.5	5.5	8.5	4.5	5.5	.0	1.5	.0	.0	.0	10.5	1.5
8	9.5	8.0	7.5	2.0	5.5	.0	.0	.0	1.0	.0	9.0	1.0
9	10.5	6.0	7.5	.5	4.5	.0	.0	.0	1.0	.0	10.0	.5
10	12.5	6.0	6.5	.5	6.5	1.0	1.5	.0	1.5	.0	8.0	2.5
11	9.5	6.5	7.0	.0	6.0	1.5	1.0	.0	2.5	.5	10.0	3.5
12	11.0	5.0	7.0	.5	5.0	.0	1.5	.0	2.5	.0	12.0	4.0
13	11.0	5.0	8.5	2.0	3.5	1.5	1.5	.5	4.0	.5	13.5	.5
14	10.5	6.5	8.5	4.0	3.5	.0	1.5	.0	4.5	2.5	9.5	2.0
15	7.0	5.5	7.5	3.5	5.0	1.5	2.0	.0	5.0	2.5	11.0	4.5
16	8.5	4.5	8.5	2.5	2.0	.0	3.5	.5	4.5	2.0	9.5	4.0
17	9.5	5.0	7.0	1.5	1.5	.0	3.0	1.0	6.0	1.5	10.5	2.5
18	10.5	3.5	4.5	2.0	.0	.0	3.0	1.5	6.0	1.0	10.0	3.0
19	10.0	2.5	3.5	.0	3.5	.0	3.5	.5	---	---	5.5	2.0
20	10.5	2.5	2.5	.0	6.0	2.0	3.5	.5	---	---	6.5	1.0
21	9.5	2.0	4.5	.0	3.0	1.0	1.5	.5	---	---	5.0	.5
22	8.5	1.5	6.0	1.5	1.5	.0	2.0	.0	---	---	8.5	.5
23	8.5	1.0	7.0	3.5	.0	.0	1.0	.0	---	---	11.0	.0
24	5.5	4.0	7.5	2.5	4.5	.0	2.5	.5	---	---	12.0	1.0
25	8.5	3.0	3.5	.0	.0	.0	4.0	.5	---	---	12.0	1.5
26	9.0	2.0	.0	.0	.0	.0	5.0	2.0	---	---	7.0	4.5
27	10.0	3.0	.0	.0	.0	.0	5.0	1.5	---	---	9.5	4.5
28	9.0	3.5	.0	.0	1.5	.0	4.5	.0	---	---	10.5	4.0
29	7.5	4.0	.0	.0	.0	.0	3.5	1.0	---	---	7.0	4.0
30	5.0	1.5	.0	.0	1.5	.0	2.5	.0	---	---	6.0	1.5
31	5.0	.0	---	---	1.5	.0	3.5	.0	---	---	10.5	1.0
MONTH	14.0	.0	8.5	.0	6.5	.0	5.0	.0			13.5	.0

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.5	4.0	14.5	7.0	---	---	24.0	11.0	29.0	9.5	20.0	8.0
2	9.5	2.0	14.5	7.0	---	---	25.5	6.5	18.5	13.0	19.5	7.0
3	11.5	2.0	---	---	---	---	27.0	7.0	24.5	11.5	19.5	7.0
4	10.5	3.5	---	---	---	---	30.5	7.0	26.5	9.5	18.5	7.0
5	9.5	1.0	---	---	---	---	26.5	7.0	23.0	8.5	19.0	11.0
6	10.5	3.5	19.5	5.0	---	---	27.5	5.5	23.5	8.5	18.0	8.0
7	5.5	.0	15.5	2.5	---	---	27.5	6.5	22.0	9.5	15.0	8.5
8	9.5	.0	18.5	6.5	---	---	27.5	10.5	20.0	10.0	16.0	9.0
9	14.0	.0	18.0	7.0	23.5	9.0	28.5	7.5	21.0	10.0	15.0	8.5
10	14.5	.0	16.5	5.5	20.5	4.0	25.0	6.0	21.0	9.0	15.5	9.5
11	14.5	3.5	17.0	4.5	25.0	5.5	23.5	10.5	20.5	10.5	11.5	9.5
12	12.5	6.0	7.0	1.0	20.0	8.0	24.5	9.5	15.0	11.0	14.0	8.0
13	18.0	3.5	16.5	2.5	20.0	8.5	23.0	10.5	15.5	10.0	10.0	8.0
14	18.0	2.5	19.0	5.0	16.0	7.0	27.0	7.5	21.5	10.5	10.5	6.5
15	14.5	2.5	20.0	5.0	18.5	6.5	26.0	7.0	22.0	9.5	15.5	7.5
16	15.5	.5	25.0	5.0	27.0	7.0	27.5	7.0	19.5	10.0	16.5	7.0
17	17.0	.0	22.5	4.5	25.0	10.5	27.0	11.0	19.0	9.5	17.0	9.0
18	14.5	1.5	21.5	5.5	19.5	10.0	29.0	9.0	22.0	10.0	14.5	7.0
19	10.5	.0	19.5	6.5	23.0	7.5	29.5	8.5	22.0	9.5	14.0	7.5
20	6.0	.0	24.5	5.0	25.5	7.0	25.5	8.0	19.0	9.5	16.0	8.0
21	13.5	.0	27.5	3.0	17.0	9.0	26.5	8.5	21.0	11.0	17.0	8.0
22	17.0	.5	22.0	4.0	18.5	10.0	27.5	11.5	16.0	11.0	16.0	6.0
23	12.5	4.0	27.5	6.0	20.0	9.0	28.5	11.0	19.5	9.5	16.5	9.0
24	17.5	3.5	23.5	5.5	28.0	8.0	25.5	11.5	21.5	10.5	15.5	7.0
25	14.5	4.5	26.5	4.5	22.5	8.5	25.0	10.5	16.0	10.0	13.0	9.5
26	13.0	5.0	---	---	27.5	6.5	24.0	12.0	18.5	10.0	15.5	10.5
27	14.5	6.0	---	---	29.5	8.0	25.0	12.0	18.0	9.0	12.0	9.0
28	18.5	4.0	---	---	26.5	9.0	18.0	12.5	18.0	9.0	10.0	7.5
29	14.5	5.0	---	---	24.5	8.5	26.5	12.0	18.0	10.0	10.5	6.5
30	15.5	3.5	---	---	24.0	11.5	28.5	10.5	20.0	9.0	10.5	7.0
31	---	---	---	---	---	---	29.0	9.5	16.5	9.0	---	---
MONTH	18.5	.0					30.5	5.5	29.0	8.5	20.0	6.0
YEAR	30.5	.0										

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	11.0	8.6	11.6	10.0	---	---	10.4	10.0	10.7	10.0		
2	10.0	8.6	11.6	9.8	---	---	10.7	9.6	10.6	10.0		
3	9.7	8.5	11.5	9.7	---	---	10.8	10.4	10.5	10.1		
4	9.5	8.8	11.3	8.9	11.5	10.6	11.0	10.4	10.5	10.2		
5	10.1	8.8	11.3	9.3	11.2	10.2	11.0	10.2	10.5	10.4		
6	10.5	8.5	11.1	9.2	11.1	10.0	10.7	10.3	10.8	10.5		
7	10.2	8.3	10.9	9.1	11.2	9.9	11.0	10.2	10.8	10.4		
8	9.8	8.7	11.4	9.7	11.3	9.9	10.6	10.3	11.5	10.5		
9	10.3	8.7	11.4	9.7	11.3	10.0	10.5	10.1	11.5	10.5		
10	10.1	8.3	11.5	9.5	11.2	9.8	10.5	10.3	10.8	10.4		
11	9.8	8.8	11.4	9.7	11.2	9.7	11.0	10.4	10.8	10.2		
12	10.2	8.5	11.6	9.8	11.5	9.9	10.8	10.6	11.2	10.4		
13	10.2	8.5	11.4	9.6	11.1	10.2	10.9	10.6	11.3	10.3		
14	10.1	8.6	11.3	9.5	11.6	10.3	11.2	8.7	10.9	10.3		
15	10.2	9.0	12.0	10.0	11.3	10.0	10.3	10.0	11.3	9.8		
16	10.4	8.9	11.6	10.1	11.7	10.4	10.3	9.8	10.2	9.8		
17	10.4	8.7	12.1	10.4	11.6	10.7	10.3	9.9	10.5	8.1		
18	10.5	8.7	11.1	9.7	11.5	10.6	10.1	9.8	10.8	9.4		
19	10.6	8.7	11.6	10.0	11.4	10.0	10.9	9.8	---	---		
20	10.6	8.7	11.5	10.0	11.0	9.7	11.2	8.7	---	---		
21	10.6	8.8	11.4	10.0	11.0	9.9	10.5	10.1	---	---		
22	10.8	9.1	11.3	9.6	11.3	10.3	10.9	10.2	---	---		
23	10.9	9.0	11.3	9.6	11.9	10.3	11.4	10.6	---	---		
24	10.4	9.4	11.5	9.4	11.5	9.7	11.4	10.8	---	---		
25	10.8	9.2	11.3	10.0	11.5	10.3	11.5	10.0	---	---		
26	11.0	9.2	---	---	10.8	10.2	10.8	9.7	---	---		
27	11.0	9.0	---	---	11.1	10.2	11.2	9.8	---	---		
28	10.8	9.0	---	---	10.8	10.2	10.5	9.7	---	---		
29	10.6	9.3	---	---	10.8	10.2	10.4	9.9	---	---		
30	11.4	9.9	---	---	11.0	10.2	10.6	10.2	---	---		
31	11.4	10.0	---	---	11.0	10.2	10.7	9.9	---	---		
MONTH	11.4	8.3			11.9	9.7	11.5	8.7				
YEAR	12.1	8.1										

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	1.2	10	.03	1.4	---	.05	1.2	---	.10
2	1.2	---	.03	1.4	---	.07	1.4	---	.10
3	1.4	---	.03	1.4	---	.10	1.5	---	.10
4	1.4	---	.04	1.4	33	.12	1.4	65	.25
5	1.6	---	.04	1.4	36	.14	1.4	---	.20
6	1.3	---	.04	1.4	58	.22	1.4	45	.17
7	1.2	---	.04	1.4	21	.08	1.4	---	.20
8	1.4	---	.04	1.4	44	.17	1.4	42	.16
9	1.4	---	.04	1.4	36	.14	1.4	---	.10
10	1.3	---	.04	1.4	37	.14	1.4	15	.06
11	1.3	---	.04	1.4	28	.11	1.4	---	.10
12	1.4	---	.04	1.4	54	.20	1.4	28	.11
13	1.4	---	.04	1.5	48	.19	1.4	---	.10
14	1.4	---	.04	1.4	---	20	1.4	18	.07
15	1.5	11	.04	1.5	---	.10	1.4	---	.10
16	1.6	---	.04	1.4	---	.08	1.4	20	.08
17	1.3	---	.01	1.4	12	.04	1.4	25	.09
18	1.4	---	.01	1.5	---	.04	1.3	---	.10
19	1.3	2	.01	1.4	---	.10	1.6	7	.03
20	1.3	---	.01	1.4	---	.10	1.6	---	.05
21	1.4	---	.01	1.5	---	.04	1.6	8	.03
22	1.3	---	.01	1.5	---	.04	1.5	---	.05
23	1.3	---	.01	1.5	---	.04	1.0	10	.03
24	1.4	---	.01	1.5	5	.02	1.2	---	.05
25	1.4	---	.01	1.5	---	.05	1.2	---	.05
26	1.3	---	.01	1.3	---	.05	1.2	8	.03
27	1.3	---	.01	1.4	---	.05	1.3	---	.05
28	1.3	---	.01	1.4	---	.08	1.2	6	.02
29	1.5	---	.02	1.4	---	.08	1.2	6	.02
30	1.4	---	.02	1.3	---	.08	1.2	13	.04
31	1.2	---	.01	---	---	---	1.0	16	.04
TOTAL	42.1	---	0.78	42.6	---	22.72	41.8	---	2.68

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	.90	---	.05	2.2	75	.45	3.1	---	1.5
2	.90	11	.03	2.2	---	.30	3.0	269	2.2
3	.80	---	.05	2.1	37	.21	3.0	214	1.7
4	.78	5	.01	2.0	---	.50	2.9	135	1.1
5	.40	49	.05	2.0	---	.50	2.7	140	1.0
6	1.1	70	.21	2.0	---	.50	2.5	---	1.0
7	1.1	---	.20	2.0	---	.30	2.5	---	1.0
8	1.8	---	.20	2.2	---	.50	2.5	---	1.0
9	1.5	---	.20	2.5	---	.27	2.5	---	1.0
10	1.4	---	.20	2.7	---	.30	2.8	---	1.0
11	1.7	---	.20	2.7	---	.30	2.8	---	1.0
12	1.9	---	.20	2.8	---	.30	2.9	---	1.0
13	1.9	---	.20	2.8	---	.30	2.9	---	1.5
14	1.9	---	.20	2.8	---	.50	3.0	---	1.5
15	1.9	---	.20	3.0	---	.80	3.0	---	1.5
16	1.9	---	.25	3.2	---	1.0	3.0	250	2.0
17	2.0	---	.25	3.7	---	1.5	3.0	---	1.2
18	1.9	---	.30	3.7	200	2.0	3.0	---	1.0
19	1.9	---	.30	4.0	210	2.4	3.0	---	.90
20	2.0	62	.33	4.4	205	2.5	2.9	113	.88
21	2.0	---	.30	4.4	181	2.3	2.9	---	1.0
22	2.1	---	.30	4.5	87	1.2	3.0	184	1.5
23	1.8	71	.35	4.1	114	1.3	3.0	---	1.5
24	2.2	107	.64	3.7	142	1.5	3.0	233	1.9
25	2.2	---	.60	3.5	---	.90	2.9	---	2.0
26	2.5	---	.70	3.5	97	.92	3.0	246	2.0
27	2.2	---	.60	3.4	---	.90	3.0	---	2.0
28	2.3	142	.88	3.2	---	.90	2.9	236	1.8
29	2.1	142	.81	---	---	---	2.9	---	1.5
30	2.0	72	.39	---	---	---	2.8	---	1.5
31	2.1	---	.40	---	---	---	2.9	---	---
TOTAL	53.18	---	9.60	85.3	---	25.35	89.3	---	41.68

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	2.9	---	1.5	2.5	---	1.0	.81	---	.03
2	2.9	217	1.7	2.5	---	1.0	1.0	---	.03
3	2.9	---	1.5	2.5	---	1.0	1.1	---	.03
4	2.9	---	1.5	1.4	---	.40	1.5	---	.08
5	2.9	188	1.5	.19	---	.05	1.8	---	.04
6	2.8	200	1.5	.15	10	.00	.88	---	.15
7	2.9	---	1.5	.11	---	.00	.40	---	.03
8	2.5	---	1.5	.18	101	.07	.38	---	.03
9	2.7	---	1.5	.38	166	.17	.23	---	.03
10	2.8	---	1.5	.15	60	.03	.22	40	.02
11	2.9	---	1.5	.08	---	.01	.43	---	.06
12	2.9	---	1.5	.18	89	.09	.78	50	.11
13	2.9	---	1.5	.27	106	.08	.88	---	.06
14	2.9	---	1.5	.07	---	.00	.88	40	.10
15	2.9	---	1.5	.18	---	.01	.81	---	.10
16	2.9	---	1.5	.12	---	.01	.62	51	.09
17	2.8	---	1.5	.05	12	.00	.96	---	.10
18	2.9	---	1.5	.12	58	.02	1.0	66	.18
19	2.9	---	1.5	.03	14	.00	.96	---	.20
20	2.5	---	1.5	.05	15	.00	.68	---	.20
21	2.5	---	1.5	.04	---	.00	.62	---	.25
22	2.8	---	1.5	.04	---	.00	1.2	87	.28
23	2.8	---	1.5	.03	---	.00	1.1	114	.34
24	2.5	---	1.5	.04	---	.00	.10	---	.01
25	2.5	---	1.5	.04	---	.00	.13	18	.00
26	2.5	---	1.5	.08	---	.00	.14	---	.01
27	2.6	---	1.0	.14	---	.01	.17	---	.01
28	2.5	---	1.0	.10	---	.01	.34	---	.03
29	2.5	---	1.0	.23	---	.01	.34	49	.04
30	2.5	---	1.0	.32	---	.01	.40	---	.05
31	---	---	---	.23	---	.01	---	---	---
TOTAL	82.4	---	43.2	12.50	---	3.99	20.86	---	2.69

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	.62	---	.05	.08	8	.00	.73	---	.02
2	.43	---	.08	.32	56	.07	.73	---	.02
3	.50	66	.09	.38	14	.01	.72	---	.02
4	.78	---	.06	.36	15	.01	.70	---	.02
5	.81	---	.06	.40	20	.02	.74	---	.02
6	.88	26	.06	.43	16	.02	.70	---	.02
7	.81	---	.06	.48	---	.02	.68	---	.02
8	.88	---	.07	.50	---	.02	.71	---	.02
9	.88	34	.08	.56	---	.02	.75	---	.02
10	.88	---	.08	.59	---	.02	.75	---	.02
11	.96	---	.09	.59	15	.02	1.0	---	.04
12	1.0	55	.15	.71	10	.02	.89	---	.03
13	.38	---	.05	.71	---	.02	1.1	---	.04
14	.15	75	.03	.71	---	.02	.96	---	.04
15	.15	---	.03	.65	---	.02	.87	12	.03
16	.13	---	.03	.65	---	.02	.75	---	.03
17	.13	---	.03	.74	---	.03	.74	---	.04
18	.13	---	.03	.74	20	.04	.76	26	.05
19	.12	86	.03	.72	---	.04	.96	33	.09
20	.12	---	.01	.68	---	.04	.93	---	.08
21	.11	---	.01	.67	---	.04	.96	41	.11
22	.10	---	.01	.68	18	.03	1.1	---	.08
23	.10	17	.00	.69	---	.03	1.0	---	.07
24	.11	---	.00	.75	---	.04	1.0	---	.06
25	.11	---	.00	.68	---	.04	1.0	---	.05
26	.10	11	.00	.74	---	.04	1.1	---	.04
27	.14	56	.04	.78	30	.06	1.1	8	.02
28	.15	43	.02	.79	---	.04	1.2	10	.03
29	.11	3	.00	.84	---	.04	1.2	---	.04
30	.09	---	.00	.79	16	.03	1.1	---	.04
31	.08	---	.00	.76	---	.03	---	---	---
TOTAL	11.94	---	1.25	19.17	---	0.90	26.93	---	1.21
YEAR	528.08		156.05						

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°51'02", long 108°15'31", in SE¼NE¼ sec.27, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 120 ft (36 m) downstream from private bridge, 0.4 mi (0.6 km) upstream from Hunter Creek, and 18.7 mi (30.1 km) west of Rio Blanco.

DRAINAGE AREA.--309 mi² (800 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder and concrete trapezoidal supercritical-flow flume. Altitude of gage is 6,214 ft (1,894 m), from topographic map. Prior to Mar. 26, 1982, at site 75 ft (23 m) upstream at datum 0.98 ft (0.297) lower.

REMARKS.--Records good. Diversions above station for irrigation above and below station.

AVERAGE DISCHARGE.--8 years, 16.2 ft³/s (0.459 m³/s), 11,740 acre-ft/yr (14.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 492 ft³/s (13.9 m³/s) Sept. 3, 1977, gage height, 4.19 ft (1.277 m) site and datum then in use; no flow Oct. 4, 5, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 3, 1977, exceeded all other floods at this location since at least 1939, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 105 ft³/s (1.10 m) at 1500 July 28, gage height, 3.25 ft (0.991 m); minimum daily, 2.8 ft³/s (0.079 m³/s) May 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	9.9	13	12	9.0	13	18	3.8	5.2	3.3	6.7	12
2	3.8	12	11	12	9.0	16	18	3.6	4.8	3.2	6.9	12
3	5.0	12	11	12	9.0	29	17	5.1	4.0	3.1	8.4	11
4	6.2	10	11	12	9.0	24	17	6.1	3.1	2.9	7.6	11
5	7.5	9.8	12	12	9.0	21	17	8.5	3.2	3.2	12	12
6	6.3	9.1	12	12	9.0	16	17	6.6	3.3	3.3	11	14
7	6.1	12	12	12	9.0	17	18	4.1	3.3	3.4	12	12
8	6.7	14	12	12	9.0	15	18	3.0	3.4	3.7	12	12
9	6.4	14	12	12	9.0	15	16	2.9	3.6	4.8	13	16
10	6.0	13	12	12	9.0	15	16	2.9	4.0	5.0	13	17
11	6.5	12	12	12	9.0	14	17	2.9	5.6	4.3	19	21
12	7.2	18	12	12	9.0	23	17	3.3	3.8	4.6	23	20
13	7.8	20	12	11	9.0	28	17	17	3.4	4.5	31	21
14	7.6	19	11	11	10	34	13	20	4.9	6.4	20	22
15	7.9	18	11	10	11	42	16	10	4.9	6.8	17	21
16	10	17	11	9.5	11	36	17	5.9	4.7	6.6	15	19
17	7.5	15	11	9.7	14	27	12	6.5	4.8	6.5	15	17
18	7.5	16	12	9.5	11	25	6.6	4.4	5.0	7.0	19	17
19	7.2	16	12	9.5	14	24	6.8	6.4	4.8	7.0	15	17
20	6.8	16	12	9.6	21	23	5.3	11	5.0	6.5	13	16
21	7.1	17	13	9.2	29	20	5.1	7.2	5.5	6.5	13	15
22	7.0	19	12	9.0	37	20	5.9	6.0	5.6	5.9	13	15
23	7.6	18	12	9.0	33	18	5.8	5.4	5.4	5.4	15	14
24	7.7	17	12	9.5	21	18	5.6	5.6	5.1	5.4	13	13
25	7.0	17	12	9.0	17	17	4.9	4.4	4.2	6.1	13	14
26	6.4	15	12	10	15	15	4.9	4.0	3.7	6.1	13	15
27	6.1	14	12	9.9	15	15	6.1	6.0	3.9	7.4	13	15
28	5.9	13	12	11	14	16	5.3	7.2	3.8	14	12	16
29	6.7	13	12	9.2	---	18	5.0	5.5	3.5	11	14	16
30	9.5	13	12	11	---	17	3.5	5.3	3.3	9.7	15	17
31	9.7	---	12	11	---	16	---	5.9	---	7.1	14	---
TOTAL	214.2	438.8	367	331.6	390.0	647	351.8	196.5	128.8	180.7	437.6	470
MEAN	6.91	14.6	11.8	10.7	13.9	20.9	11.7	6.34	4.29	5.83	14.1	15.7
MAX	10	20	13	12	37	42	18	20	5.6	14	31	22
MIN	3.5	9.1	11	9.0	9.0	13	3.5	2.9	3.1	2.9	6.7	11
AC-FT	425	870	728	658	774	1280	698	390	255	358	868	932

CAL YR 1981 TOTAL 3965.19 MEAN 10.9 MAX 25 MIN .52 AC-FT 7860
WTR YR 1982 TOTAL 4154.00 MEAN 11.4 MAX 42 MIN 2.9 AC-FT 8240

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to current year.
pH: October 1974 to current year.
WATER TEMPERATURE: October 1974 to current year.
DISSOLVED OXYGEN: October 1974 to current year
SUSPENDED-SEDIMENT DISCHARGE: April 1974 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler since April 1974. Water-quality monitor since October 1974.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum 1,980 micromhos Jan. 15, 1976; minimum, 550 micromhos Apr. 5, 1978.
pH: Maximum, 8.9 units Dec. 7, 1977; minimum, 7.4 units Apr. 18, 1979.
WATER TEMPERATURES: Maximum, 26.5°C June 26, 1977; minimum, freezing point on many days during winter months.
DISSOLVED OXYGEN: Maximum, 16.5 mg/L Mar. 21, 22, 1976; minimum, 3.1 mg/L Sept. 10, 1978.
SEDIMENT CONCENTRATIONS: Maximum daily, 87,000 mg/L estimated Sept. 3, 1977; minimum daily, no flow Oct. 4, 5, 1977.
SEDIMENT LOADS: Maximum daily, 27,000 tons (24,000 t) estimated Sept. 3, 1977; minimum daily, no flow Oct. 4, 5, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, not determined; minimum, not determined.
pH: Maximum, not determined; minimum, not determined.
WATER TEMPERATURES: Maximum, not determined; minimum, 0.0°C on many days during January to April.
DISSOLVED OXYGEN: Maximum, not determined; minimum not determined.
SEDIMENT CONCENTRATIONS: Maximum daily, not determined; minimum daily, 15 mg/L Oct. 22.
SEDIMENT LOADS: Maximum daily, 1,000 tons (907 t) estimated July 28; minimum daily, 0.28 tons (0.25 t) Oct. 22.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)
OCT											
19...	1315	7.1	1500	1350	8.0	10.0	9.6	.58	25	K23	K4
NOV											
24...	1220	16	1300	1150	8.2	6.0	11.6	2.0	--	--	--
DEC											
30...	1120	12	1250	1220	8.0	3.0	9.9	1.2	--	--	--
MAR											
24...	1020	14	1150	1190	8.2	5.0	10.5	1.0	--	--	--
MAY											
19...	1300	6.6	1630	1580	8.2	14.0	9.2	--	31	--	--
JUN											
09...	1030	3.7	1600	1650	8.2	11.5	10.4	1.0	--	--	--
SEP											
21...	0945	16	1270	1250	8.4	10.0	8.6	1.5	--	--	--

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
OCT											
19...	100	490	76	73	180	3.6	3.5	550	.0	350	15
NOV											
24...	--	470	81	65	150	3.1	2.7	450	--	290	11
DEC											
30...	--	430	67	63	140	3.0	2.3	450	--	250	10
MAR											
24...	--	430	75	59	120	2.6	.7	360	--	260	12
MAY											
19...	--	490	79	71	180	3.6	4.4	560	.8	340	13
JUN											
09...	--	520	80	78	190	3.7	3.3	563	--	340	14
SEP											
21...	--	400	68	55	150	3.4	2.4	435	--	220	17

K BASED ON NON-IDEAL COLONY COUNT.

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	BROMIDE DISSOLVED (MG/L AS BR)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT 19...	.8	.10	18	1050	1.4	20.1	.13	.090	.36	.45	.050
NOV 24...	.6	--	16	890	1.2	38.4	.55	.210	1.2	1.4	.030
DEC 30...	.8	--	17	823	1.1	26.7	.49	.100	.57	.67	.050
MAR 24...	.7	--	16	764	1.0	28.9	.46	.090	.46	.55	.060
MAY 19...	.9	.04	17	1050	1.4	18.7	<.10	.110	.62	.73	.130
JUN 09...	.9	--	17	1070	1.4	10.7	.34	.070	.63	.70	.050
SEP 21...	1.8	--	15	795	1.1	34.3	.39	.070	1.0	1.1	.140

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)
OCT 19...	20	3	74	240	<1	0	2	16	3	15
NOV 24...	--	2	--	200	--	--	--	15	--	--
DEC 30...	--	2	--	180	--	--	--	16	--	--
MAR 24...	--	3	--	170	--	--	--	9	--	--
MAY 19...	30	3	83	240	<3	<10	6	13	2	19
JUN 09...	--	3	--	230	--	--	--	19	--	--
SEP 21...	--	2	--	230	--	--	--	7	--	--

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)
OCT 19...	130	.0	20	1	2500	8	--	<22	<.4	<12
NOV 24...	72	--	--	--	--	--	--	--	--	--
DEC 30...	50	--	--	--	--	--	--	--	--	--
MAR 24...	34	--	--	--	2100	--	--	--	--	--
MAY 19...	170	<.1	12	1	2300	20	.7	<25	1.0	<15
JUN 09...	190	--	--	--	2500	--	--	--	--	--
SEP 21...	49	--	--	--	1900	--	--	--	--	--

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)
OCT										
19...	.5	<12	.4	.08	3.9	5.5	.3	>.01	0	0
NOV										
24...	--	--	--	--	--	4.0	.4	--	--	--
DEC										
30...	--	--	--	--	--	3.9	.7	--	--	--
MAR										
24...	--	--	--	--	--	3.6	1.5	--	1	--
MAY										
19...	1.9	<15	1.8	.08	4.1	7.2	.7	<.01	2	0
JUN										
09...	--	--	--	--	--	5.0	.5	--	2	--
SEP										
21...	--	--	--	--	--	4.6	1.4	--	<1	--

DATE	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	PCN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-AZINON, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
OCT										
19...	.00	0	.0	.0	.0	.2	.3	.0	.0	.0

DATE	ENDO-SULFAN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ETHION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA-THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI-THION, TOT. IN BOTTOM MATL. (UG/KG)
OCT										
19...	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

DATE	MIREX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	PARA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	PER-THANE IN BOTTOM MATERIL (UG/KG)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TRI-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2,4-D, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2,4-DP, IN BOTTOM MAT. (UG/KG)	2,4,5-T TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SILVEX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
OCT									
19...	.0	.0	.00	.0	.0	.0	.0	.0	.0

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
01...	0910	3.7	91	.91
15...	1550	7.9	42	.90
19...	1315	7.1	24	.46
NOV				
04...	1510	10	23	.62
17...	1550	13	14	.49
24...	1220	16	30	1.3
DEC				
16...	0920	10	30	.81
30...	1120	12	55	1.8
JAN				
21...	1100	6.7	80	1.4
FEB				
18...	1010	8.7	95	2.2
MAR				
24...	1020	14	192	7.3
APR				
13...	1620	19	231	12
MAY				
05...	1850	7.8	260	5.5
19...	1310	6.6	69	1.2
JUN				
09...	1035	3.8	32	.33
JUL				
12...	1220	5.2	51	.72
AUG				
17...	1340	14	253	9.6
SEP				
08...	1400	13	97	3.4
21...	0945	16	344	15

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1540	---	1290	1230	1200	1190	---	1500	1520	1580		1320
2	1540	---	1290	1240	1220	1190	---	1510	1530	1590		1330
3	1540	---	1280	1240	1240	1080	---	1440	1540	1590		1330
4	1510	---	1290	1260	1300	1110	---	1390	1570	1590		1330
5	1500	---	1280	1240	---	1140	---	1270	1560	1600		1330
6	1530	---	1280	1240	---	1190	---	1350	1560	1600		1290
7	1530	---	1280	---	1290	1180	---	1510	1560	1610		1310
8	---	---	1270	---	1230	1180	---	1570	1570	1620		1320
9	---	1380	1270	1280	1250	1180	1180	1560	1560	1640		1290
10	---	1390	1270	1240	1180	1170	1170	1550	1560	1670		1270
11	---	1400	1270	1210	1200	1180	1170	1540	1520	1670		1250
12	---	1370	1270	1210	1210	1130	1160	1460	1530	1650		1250
13	---	1340	1260	1230	1200	1130	1150	1310	1550	1660		1250
14	---	1330	1260	1230	1200	1070	1200	1320	1510	1620		1250
15	---	1330	1260	1230	1180	1030	1170	1430	1570	1610		1250
16	1500	1330	1250	1240	1180	1040	1150	1550	1570	1610		1260
17	1530	1340	1250	1230	1140	1100	1210	1540	1570	1610		1270
18	1530	1330	1280	1230	1150	1140	1320	1580	1570	1590		1280
19	1530	1340	1250	1230	1120	1150	1340	1540	1580	1580		1280
20	1540	1330	1260	1230	1040	1160	1400	1490	1570	1600		1270
21	1550	1320	1240	1230	999	1180	1450	1540	1570	1580		1270
22	1560	1300	1240	1200	937	1180	1480	1540	1580	1580		1270
23	1570	1300	1280	1250	973	1190	1480	1560	1590	1580		1260
24	1550	1290	---	1220	1090	1190	1510	1540	1590	1580		1270
25	1570	1280	1240	1220	1170	1190	1540	1560	1590	1560		1270
26	1560	1290	1280	1200	1180	---	1520	1560	1590	1560		1260
27	---	1290	1260	1210	1170	---	1420	1500	1590	1520		1240
28	---	1290	---	1230	1190	---	1410	1460	1590	---		1240
29	---	1280	1230	1220	---	---	1410	1520	1590	---		1240
30	---	1280	1210	1240	---	---	1490	1520	1580	---		1220
31	---	---	1220	1210	---	---	---	1500	---	---		---
MEAN			1260	1230	1160			1490	1560	1600		1280

WTR YR 1982 MEAN 1360 MAX 1670 MIN 937

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.2	7.8	---	---	8.4	8.0	8.3	8.2	8.4	8.3	8.3	8.2
2	8.0	7.8	---	---	8.3	8.2	8.3	8.2	8.4	8.3	8.4	8.2
3	8.1	7.8	---	---	8.3	8.2	8.3	8.2	8.4	8.2	8.3	8.3
4	7.9	7.8	---	---	8.3	8.2	8.3	8.1	8.3	8.0	8.3	8.2
5	8.0	7.7	---	---	8.3	8.2	8.3	8.2	---	---	8.4	8.3
6	8.1	7.7	---	---	8.3	8.1	8.3	8.1	---	---	8.3	8.2
7	8.1	7.7	---	---	8.3	8.2	---	---	8.2	7.9	8.3	8.2
8	---	---	---	---	8.4	8.2	---	---	8.3	8.1	8.3	8.2
9	---	---	8.1	7.9	8.3	8.2	8.0	7.9	8.3	8.0	8.4	8.2
10	---	---	8.2	7.9	8.3	8.2	8.2	8.0	8.7	8.3	8.3	8.1
11	---	---	8.3	8.0	8.3	8.2	8.2	8.1	8.4	8.2	8.3	8.2
12	---	---	8.3	8.1	8.3	8.2	8.2	8.1	8.3	8.1	8.3	8.2
13	---	---	8.3	8.1	8.3	8.2	8.2	8.1	8.3	8.1	8.4	8.2
14	---	---	8.3	8.1	8.3	8.2	8.2	8.1	8.3	8.2	8.3	8.2
15	---	---	8.3	8.1	8.3	8.2	8.2	8.1	8.3	8.2	8.3	8.2
16	7.9	7.8	8.3	8.1	8.3	8.1	8.2	8.1	8.3	8.2	8.3	8.2
17	8.0	7.7	8.4	8.1	8.3	8.2	8.2	8.1	8.3	8.2	8.3	8.2
18	8.1	7.7	8.3	8.1	8.3	8.2	8.2	8.1	8.3	8.2	8.3	8.2
19	8.1	7.7	8.3	8.2	8.3	8.2	8.2	8.1	8.2	8.1	8.3	8.2
20	8.0	7.7	8.2	8.1	8.3	8.2	8.2	8.1	8.3	8.2	8.3	8.2
21	8.0	7.7	8.3	8.1	8.3	8.2	8.4	8.0	8.3	8.2	8.3	8.2
22	8.1	7.7	8.3	8.2	8.3	8.2	8.4	8.3	8.3	8.1	8.3	8.3
23	8.1	7.7	8.3	8.1	8.4	8.2	8.3	8.0	8.3	8.1	8.3	8.2
24	7.9	7.7	8.3	8.1	---	---	8.3	8.2	8.3	8.2	8.6	8.2
25	8.0	7.7	8.3	8.1	8.2	8.0	8.3	8.2	8.3	8.3	8.5	8.4
26	8.0	7.7	8.3	8.2	8.4	8.1	8.3	8.2	8.3	8.2	---	---
27	---	---	8.3	8.2	8.3	8.1	8.3	8.2	8.3	8.2	---	---
28	---	---	8.3	8.2	---	---	8.3	8.2	8.3	8.3	---	---
29	---	---	8.3	8.2	8.2	8.0	8.4	8.3	---	---	---	---
30	---	---	8.3	8.2	8.3	8.0	8.4	8.2	---	---	---	---
31	---	---	---	---	8.3	8.3	8.4	8.3	---	---	---	---
MONTH					8.4	8.0	8.4	7.9	8.7	7.9	8.6	8.1

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	8.2	8.0	---	---	8.5	8.2	---	---	8.4	8.0
2	---	---	8.3	8.0	---	---	8.5	8.1	---	---	8.4	8.0
3	---	---	8.3	8.0	---	---	8.5	8.1	---	---	8.4	8.0
4	---	---	8.2	8.0	---	---	8.5	8.1	---	---	8.4	8.1
5	---	---	---	---	---	---	8.5	8.1	---	---	8.4	8.1
6	---	---	---	---	---	---	8.5	8.0	---	---	8.4	8.0
7	---	---	---	---	---	---	8.4	8.0	---	---	8.4	8.0
8	---	---	---	---	---	---	8.5	8.1	---	---	8.3	8.0
9	8.2	8.0	---	---	8.4	8.1	8.3	8.0	---	---	8.2	7.9
10	8.3	8.1	---	---	8.4	7.9	8.4	8.0	---	---	8.2	7.9
11	8.3	8.2	---	---	8.5	8.0	8.3	8.0	---	---	8.0	7.9
12	8.3	8.2	---	---	8.4	8.0	8.2	8.0	---	---	8.1	7.8
13	8.4	8.2	---	---	8.4	8.0	8.3	8.0	---	---	8.0	7.9
14	8.4	8.2	---	---	8.3	8.0	8.4	8.0	---	---	8.1	7.9
15	8.3	8.2	---	---	8.4	8.0	8.5	8.1	---	---	8.4	7.9
16	8.3	8.2	---	---	8.5	8.0	8.5	8.1	---	---	8.3	8.0
17	8.3	8.1	---	---	8.4	8.1	8.5	8.1	---	---	8.3	8.1
18	8.2	8.1	---	---	8.4	8.1	8.6	8.1	---	---	8.3	8.1
19	8.2	8.0	---	---	8.5	8.0	8.6	8.1	---	---	8.3	8.1
20	8.1	8.0	---	---	8.5	8.0	8.6	8.1	---	---	8.4	8.1
21	8.1	8.0	---	---	8.4	8.1	8.6	8.1	---	---	8.5	8.1
22	8.1	8.0	---	---	8.4	8.0	8.6	8.2	---	---	8.4	8.1
23	8.1	7.9	---	---	8.5	8.0	8.6	8.2	---	---	8.5	8.1
24	8.1	8.0	---	---	8.6	8.0	8.6	8.2	---	---	8.4	8.1
25	8.1	7.9	---	---	8.4	8.1	8.6	8.1	---	---	8.3	8.2
26	8.1	7.9	---	---	8.5	8.0	8.6	8.2	---	---	8.4	8.2
27	8.3	8.0	---	---	8.5	8.0	8.7	8.2	---	---	8.3	8.2
28	8.3	8.0	---	---	8.5	8.1	---	---	---	---	8.3	8.2
29	8.3	8.0	---	---	8.5	8.1	---	---	---	---	8.3	8.1
30	8.3	8.0	---	---	8.5	8.1	---	---	---	---	8.3	8.1
31	---	---	---	---	---	---	---	---	8.4	8.2	---	---
MONTH							8.7	8.0			8.5	7.8

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	15.0	7.0	---	---	1.0	.0	4.0	1.0	3.5	.0	7.0	2.0
2	12.5	9.5	---	---	3.5	.0	1.0	.0	3.0	.0	11.0	4.5
3	13.5	10.0	---	---	4.0	.0	.5	.0	1.5	.0	6.5	3.0
4	11.5	9.0	---	---	3.5	.0	.5	.0	.5	.0	7.0	1.0
5	11.5	8.0	---	---	5.5	2.0	3.5	.0	---	---	6.0	1.5
6	14.0	7.0	---	---	5.0	1.0	1.5	.0	---	---	8.5	.0
7	13.5	7.5	---	---	5.5	1.5	---	---	.5	.0	9.5	1.5
8	---	---	---	---	5.5	1.5	---	---	.5	.0	8.0	1.5
9	---	---	---	---	5.0	1.0	.5	.0	.5	.0	8.5	1.0
10	---	---	7.5	3.0	5.5	2.0	.5	.0	.0	.0	7.5	2.5
11	---	---	7.5	3.0	5.5	2.5	.5	.0	.0	.0	8.5	4.0
12	---	---	7.5	2.5	5.0	1.5	.5	.0	.5	.0	10.5	4.0
13	---	---	8.0	4.0	4.0	2.5	.5	.0	.5	.0	11.5	1.5
14	---	---	8.0	5.0	4.0	1.5	.5	.0	5.0	.5	8.0	2.5
15	---	---	8.0	5.0	5.5	2.5	2.0	.0	6.0	2.5	9.5	4.5
16	9.0	6.5	8.5	4.5	3.0	.0	3.5	.0	5.0	2.5	9.5	3.5
17	11.0	7.0	7.0	3.5	2.5	.0	4.5	1.0	7.5	1.5	11.0	2.0
18	11.0	6.5	5.5	4.0	1.5	.0	3.5	.5	6.5	.5	11.0	3.5
19	11.0	5.0	5.0	1.5	4.5	1.0	4.0	.0	7.0	.0	6.0	2.0
20	11.0	5.5	4.5	1.0	6.0	3.0	4.5	.0	8.0	1.0	8.0	1.0
21	10.5	5.0	5.5	2.0	4.0	2.5	2.5	.0	8.5	1.0	6.0	.0
22	10.0	4.5	6.5	3.5	2.5	.5	1.0	.0	8.5	1.5	8.0	.0
23	10.0	4.0	7.5	4.5	.5	.0	.5	.0	8.0	2.5	12.0	.5
24	7.5	5.5	7.5	3.5	---	---	4.0	.0	7.5	1.0	12.5	1.0
25	10.0	5.0	5.0	1.5	.5	.0	4.0	.0	9.0	2.0	13.5	1.5
26	9.5	4.0	3.0	.0	.5	.0	6.5	1.0	10.0	1.0	---	---
27	---	---	2.5	.0	1.5	.0	5.5	1.5	8.0	2.5	---	---
28	---	---	3.0	.5	---	---	3.0	.0	11.5	2.5	---	---
29	---	---	3.0	1.0	.5	.0	3.5	.5	---	---	---	---
30	---	---	3.0	1.0	4.5	.0	2.0	.0	---	---	---	---
31	---	---	---	---	2.0	.0	3.0	.0	---	---	---	---
MONTH					6.0	.0	6.5	.0	11.5	.0		

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	14.0	5.5	16.5	7.0	21.5	10.0			20.5	10.5
2	---	---	15.0	5.0	18.0	6.5	23.0	7.0			19.5	9.5
3	---	---	18.0	7.5	19.0	8.0	23.5	7.5			19.5	9.5
4	---	---	10.5	7.5	20.0	6.0	23.0	7.5			17.5	11.0
5	---	---	14.0	4.5	19.5	6.0	18.0	8.0			18.5	12.5
6	---	---	16.5	3.0	18.0	5.0	22.5	7.0			17.5	10.0
7	---	---	14.0	4.0	20.5	5.0	21.0	7.5			15.0	10.5
8	---	---	16.0	6.5	19.5	5.5	18.0	10.0			16.5	10.5
9	12.5	.0	17.0	6.0	21.0	5.5	19.0	10.0			15.5	10.0
10	14.0	.5	13.5	6.0	18.5	6.0	21.5	9.0			15.5	11.0
11	13.5	4.5	14.5	6.0	22.5	7.5	20.0	10.0			13.0	10.5
12	11.5	7.0	7.0	3.5	18.0	7.5	16.5	9.0			14.5	9.0
13	17.0	5.0	12.5	3.5	18.5	7.5	19.0	10.0			10.5	9.0
14	17.0	3.5	13.5	6.0	15.5	7.0	21.0	9.5			10.5	7.5
15	12.5	4.0	15.0	5.0	18.5	7.5	21.0	9.5			15.0	8.0
16	14.0	1.5	17.5	6.0	22.5	7.5	22.0	9.5			16.0	9.0
17	15.0	1.5	18.5	6.0	22.0	9.0	22.0	11.5			17.0	10.5
18	13.0	2.5	17.0	6.5	18.5	10.0	22.5	11.0			15.0	9.0
19	10.5	2.0	14.5	7.0	21.0	7.5	23.0	10.5			14.5	9.0
20	7.5	1.0	18.5	6.5	21.5	7.5	21.5	10.0			16.0	9.0
21	14.0	.5	20.0	5.5	16.0	8.0	22.0	10.5			17.5	9.5
22	16.0	2.0	17.0	6.5	17.0	9.0	21.5	12.5			16.5	9.5
23	12.0	4.5	20.5	7.0	19.0	8.5	23.5	12.0			18.0	10.0
24	16.0	4.5	18.0	7.5	22.5	8.0	20.0	12.5			16.0	8.5
25	14.0	4.5	19.0	6.5	18.0	8.5	22.0	12.0			12.5	10.0
26	13.0	5.0	21.0	6.5	22.5	7.5	20.0	13.0			15.0	11.0
27	13.5	6.0	19.5	7.5	24.0	8.0	21.5	12.5			12.5	9.5
28	18.5	4.5	17.0	8.5	24.0	8.5	---	---			9.5	8.0
29	15.0	6.5	18.5	6.5	23.5	8.0	---	---			10.5	7.0
30	16.5	3.5	13.5	7.5	21.5	10.0	---	---			11.5	7.5
31	---	---	20.5	6.5	---	---	---	---			---	---
MONTH			21.0	3.0	24.0	5.0	23.5	7.0			20.5	7.0

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	11.2	6.7	---	---	11.4	10.1	10.3	9.3	10.8	9.9		
2	10.6	6.7	---	---	11.8	9.8	10.5	10.0	10.7	9.8		
3	10.5	6.6	---	---	11.9	9.8	10.7	10.2	10.5	10.1		
4	9.2	6.8	---	---	12.0	9.8	10.5	10.1	10.4	10.0		
5	9.9	7.2	---	---	11.6	9.3	10.2	9.3	---	---		
6	10.4	6.5	---	---	11.7	8.2	10.8	9.7	---	---		
7	10.4	6.6	---	---	11.7	8.2	---	---	10.4	9.9		
8	---	---	---	---	11.9	9.2	---	---	10.7	10.0		
9	---	---	11.7	8.8	11.8	9.3	10.8	10.4	10.4	10.1		
10	---	---	11.9	9.0	11.6	9.0	10.7	10.4	10.4	10.2		
11	---	---	12.0	8.8	11.5	8.9	10.5	10.2	10.3	10.1		
12	---	---	11.5	8.9	11.8	9.1	10.5	9.9	10.4	10.2		
13	---	---	11.3	8.6	11.0	9.3	10.5	9.9	---	---		
14	---	---	11.1	8.2	11.5	9.4	10.5	10.0	---	---		
15	---	---	11.1	8.5	11.5	8.9	10.6	9.9	---	---		
16	9.8	7.0	11.4	8.4	12.2	9.3	10.5	9.6	---	---		
17	10.0	7.0	11.4	8.8	12.3	10.1	10.3	9.3	---	---		
18	10.2	7.0	11.4	8.3	10.9	10.4	10.2	9.5	---	---		
19	10.2	6.9	12.0	8.0	11.1	9.4	10.5	9.3	---	---		
20	10.1	6.8	11.7	8.2	10.9	9.0	10.5	9.2	---	---		
21	10.1	6.9	11.7	8.2	10.5	9.4	10.6	9.7	---	---		
22	10.4	7.1	11.4	8.9	11.2	9.8	10.7	10.1	---	---		
23	10.2	7.1	11.1	8.7	11.2	10.3	10.6	10.3	---	---		
24	9.6	7.1	11.6	8.5	---	---	10.6	9.6	---	---		
25	10.3	7.2	10.7	8.2	10.8	10.2	10.8	9.6	---	---		
26	10.6	7.3	11.8	8.2	10.7	10.4	10.4	8.8	---	---		
27	---	---	11.5	9.8	10.8	10.1	10.4	9.2	---	---		
28	---	---	11.8	8.2	---	---	10.5	9.6	---	---		
29	---	---	11.4	8.3	10.8	10.3	10.5	9.8	---	---		
30	---	---	11.7	8.1	10.4	9.5	10.7	10.0	---	---		
31	---	---	---	---	10.8	9.9	10.7	9.7	---	---		
MONTH					12.3	8.2	10.8	8.8				

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---			8.8	6.5
2	---	---	---	---	---	---	11.4	5.5			9.0	6.5
3	---	---	---	---	---	---	10.7	5.0			9.0	6.4
4	---	---	---	---	---	---	10.0	4.9			8.7	6.5
5	---	---	---	---	---	---	9.4	5.3			8.7	7.2
6	---	---	10.1	6.7	---	---	---	---			8.9	6.8
7	---	---	10.4	6.5	---	---	---	---			8.8	7.2
8	---	---	11.5	6.3	---	---	---	---			8.8	7.0
9	9.8	7.6	11.6	6.0	10.7	6.2	---	---			9.1	7.0
10	9.9	7.3	11.3	6.6	10.4	6.3	---	---			8.8	7.0
11	9.2	7.2	---	---	10.0	6.2	---	---			7.9	7.1
12	8.8	7.6	9.8	6.6	9.9	6.4	9.4	5.6			8.2	7.3
13	9.2	6.9	8.3	6.6	10.5	6.4	9.6	6.1			8.4	7.7
14	9.2	6.6	7.8	6.5	9.7	6.8	9.3	5.6			8.6	7.8
15	8.7	7.0	8.2	5.8	10.1	6.3	9.0	5.4			8.6	7.0
16	8.9	6.9	8.0	5.7	10.8	6.0	9.2	5.4			8.8	7.0
17	8.9	6.1	8.7	5.8	10.0	6.0	9.6	5.4			8.4	6.9
18	---	---	9.8	5.7	9.0	6.1	9.5	5.2			8.6	7.1
19	---	---	9.8	6.0	9.5	6.0	9.6	5.1			8.6	7.0
20	---	---	8.8	5.7	10.1	5.5	---	---			8.4	6.7
21	---	---	10.0	5.5	9.3	5.5	---	---			8.9	7.0
22	---	---	10.1	5.4	9.6	5.4	---	---			8.9	7.0
23	---	---	11.4	5.1	---	---	---	---			8.8	6.8
24	---	---	10.4	5.4	---	---	---	---			9.0	7.0
25	---	---	10.5	5.2	11.6	6.6	---	---			8.5	7.4
26	---	---	10.4	5.1	13.5	5.7	---	---			8.3	6.9
27	---	---	9.7	5.3	12.0	5.6	---	---			8.1	7.1
28	---	---	8.4	5.6	10.9	5.1	---	---			8.6	7.6
29	---	---	8.8	5.3	---	---	---	---			8.4	7.4
30	---	---	8.8	5.5	---	---	---	---			8.2	7.2
31	---	---	---	---	---	---	---	---			---	---
MONTH			11.6	5.1							9.1	6.4

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	3.5	70	.66	9.9	---	1.0	13	---	2.5
2	3.8	107	1.1	12	---	1.0	11	106	3.2
3	5.0	105	1.4	12	---	1.0	11	---	3.0
4	6.2	99	1.7	10	63	1.7	11	101	3.0
5	7.5	95	1.9	9.8	82	2.2	12	---	3.0
6	6.3	144	2.4	9.1	67	1.6	12	87	2.8
7	6.1	65	1.1	12	79	2.6	12	---	2.8
8	6.7	100	1.8	14	69	2.6	12	96	3.1
9	6.4	53	.92	14	55	2.1	12	---	2.7
10	6.0	53	.86	13	30	1.1	12	86	2.8
11	6.5	58	1.0	12	---	1.0	12	---	2.4
12	7.2	162	3.1	18	---	1.0	12	75	2.4
13	7.8	170	3.6	20	---	1.5	12	---	2.4
14	7.6	90	1.8	19	---	1.5	11	74	2.2
15	7.9	76	1.6	18	---	1.5	11	---	2.2
16	10	112	3.0	17	33	1.5	11	85	2.5
17	7.5	74	1.5	15	54	2.2	11	---	3.0
18	7.5	59	1.2	16	---	1.3	12	177	5.4
19	7.2	56	1.1	16	---	1.3	12	---	3.2
20	6.8	44	.81	16	---	1.3	12	105	3.4
21	7.1	44	.84	17	---	1.3	13	---	3.0
22	7.0	15	.28	19	---	1.4	12	125	4.0
23	7.6	38	.78	18	---	1.4	12	---	4.0
24	7.7	---	.60	17	30	1.4	12	---	4.0
25	7.0	21	.40	17	---	1.5	12	---	3.0
26	6.4	---	.35	15	---	1.5	12	---	3.0
27	6.1	19	.31	14	38	1.4	12	---	2.0
28	5.9	---	.30	13	---	1.0	12	---	1.5
29	6.7	---	---	13	---	1.0	12	---	1.5
30	9.5	35	.90	13	---	1.0	12	55	1.8
31	9.7	---	.90	---	---	---	12	---	2.0
TOTAL	214.2	---	38.21	438.8	---	43.9	367	---	87.8

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	12	---	2.0	9.0	---	2.5	13	---	7.0
2	12	---	2.0	9.0	105	2.5	16	230	9.9
3	12	---	2.0	9.0	119	2.9	29	430	34
4	12	---	2.5	9.0	126	3.1	24	350	23
5	12	---	3.0	9.0	77	1.9	21	---	15
6	12	99	3.2	9.0	---	2.0	16	210	9.1
7	12	120	3.9	9.0	91	2.2	17	---	10
8	12	---	3.2	9.0	91	2.2	15	344	14
9	12	97	3.1	9.0	102	4.4	15	---	10
10	12	---	3.5	9.0	140	3.4	15	220	8.9
11	12	137	4.4	9.0	210	5.1	14	---	9.0
12	12	---	4.0	9.0	168	4.1	23	490	30
13	11	104	3.1	9.0	203	4.9	28	530	40
14	11	140	4.2	10	154	4.2	34	520	48
15	10	161	4.3	11	217	6.4	42	590	67
16	9.5	98	2.5	11	161	4.8	36	450	44
17	9.7	---	2.0	14	140	5.3	27	370	27
18	9.5	66	1.7	11	98	2.9	25	---	20
19	9.5	---	2.0	14	221	9.6	24	231	15
20	9.6	---	2.0	21	273	21	23	---	15
21	9.2	81	2.0	29	469	49	20	---	12
22	9.0	119	2.9	37	830	98	20	220	12
23	9.0	161	3.9	33	557	54	18	---	10
24	9.5	---	3.5	21	---	30	18	220	11
25	9.0	126	3.1	17	246	11	17	---	10
26	10	140	3.8	15	---	10	15	---	10
27	9.9	---	4.0	15	---	8.0	15	---	10
28	11	140	4.1	14	204	7.7	16	---	10
29	9.2	---	3.0	---	---	---	18	---	10
30	11	112	3.3	---	---	---	17	---	10
31	11	94	2.8	---	---	---	16	---	10
TOTAL	331.6	---	95.0	390.0	---	363.1	647	---	570.9

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	18	---	10	3.8	---	3.0	5.2	---	1.0
2	18	---	10	3.6	---	3.0	4.8	---	.70
3	17	---	10	5.1	---	4.0	4.0	35	.40
4	17	---	10	6.1	---	4.0	3.1	---	.30
5	17	---	10	8.5	220	5.0	3.2	---	.30
6	17	---	10	6.6	190	3.4	3.3	---	.30
7	18	---	10	4.1	---	3.0	3.3	---	.30
8	18	---	10	3.0	---	2.0	3.4	---	.30
9	16	---	10	2.9	---	2.0	3.6	28	.30
10	16	---	10	2.9	---	2.0	4.0	55	.67
11	17	---	10	2.9	---	2.0	5.6	95	1.6
12	17	---	10	3.3	---	3.0	3.8	---	.80
13	17	247	11	17	---	20	3.4	---	.80
14	13	269	9.0	20	---	25	4.9	68	.98
15	16	---	15	10	---	8.0	4.9	80	1.1
16	17	430	20	5.9	---	3.0	4.7	---	1.2
17	12	250	8.1	6.5	160	2.7	4.8	90	1.3
18	6.6	---	5.0	4.4	---	1.0	5.0	64	.86
19	6.8	---	5.0	6.4	70	1.2	4.8	---	.90
20	5.3	---	5.0	11	140	3.7	5.0	62	.89
21	5.1	---	5.0	7.2	120	2.3	5.5	---	.90
22	5.9	---	5.0	6.0	---	1.5	5.6	---	.90
23	5.8	---	5.0	5.4	82	1.2	5.4	38	.60
24	5.6	---	4.0	5.6	132	2.0	5.1	---	.50
25	4.9	---	4.0	4.4	---	1.5	4.2	40	.47
26	4.9	---	4.0	4.0	---	1.5	3.7	---	.50
27	6.1	---	5.0	6.0	---	2.0	3.9	---	.70
28	5.3	---	4.0	7.2	100	2.0	3.8	62	.65
29	5.0	---	4.0	5.5	---	1.0	3.5	---	.50
30	3.5	---	2.0	5.3	---	1.0	3.3	---	.50
31	---	---	---	5.9	66	1.1	---	---	---
TOTAL	351.8	---	240.1	196.5	---	118.1	128.8	---	21.22
		JULY			AUGUST			SEPTEMBER	
1	3.3	59	.54	6.7	---	1.0	12	---	5.0
2	3.2	---	.50	6.9	---	1.5	12	---	5.0
3	3.1	---	.50	8.4	---	2.0	11	---	4.0
4	2.9	---	.50	7.6	---	2.0	11	130	3.9
5	3.2	53	.47	12	---	8.0	12	3260	156
6	3.3	---	.50	11	---	8.0	14	---	15
7	3.4	---	.50	12	---	8.0	12	135	4.4
8	3.7	60	.61	12	---	8.0	12	92	3.0
9	4.8	---	.70	13	---	9.0	16	187	8.9
10	5.0	53	.73	13	---	9.0	17	210	9.6
11	4.3	---	.70	19	---	20	21	364	21
12	4.6	65	.81	23	---	250	20	---	20
13	4.5	---	.80	31	---	450	21	---	20
14	6.4	75	1.3	20	---	30	22	---	15
15	6.8	62	1.1	17	---	20	21	260	15
16	6.6	---	1.0	15	---	15	19	277	14
17	6.5	---	1.0	15	300	12	17	---	15
18	7.0	---	2.0	19	750	41	17	250	12
19	7.0	114	2.1	15	500	20	17	---	15
20	6.5	---	1.0	13	---	15	16	462	20
21	6.5	---	1.0	13	---	15	15	358	14
22	5.9	---	.80	13	---	15	15	---	15
23	5.4	48	.69	15	340	14	14	296	12
24	5.4	---	.70	13	---	12	13	---	10
25	6.1	---	.80	13	---	10	14	389	15
26	6.1	54	.90	13	---	10	15	---	10
27	7.4	82	2.7	13	---	10	15	---	9.0
28	14	---	1000	12	---	8.0	16	---	8.0
29	11	---	30	14	---	10	16	---	8.0
30	9.7	---	5.0	15	---	10	17	179	8.2
31	7.1	---	3.0	14	195	7.4	---	---	---
TOTAL	180.7	---	1062.95	437.6	---	1050.9	470	---	491.0
YEAR	4154.0		4183.18						

09306175 BLACK SULPHUR CREEK NEAR RIO BLANCO, CO

LOCATION.--Lat 39°52'16", long 108°17'18", in SE¼SW¼ sec.16, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 600 ft (183 m) upstream from mouth, 0.2 mi (0.3 km) west of Rock School, and 23.7 mi (38.1 km) northwest of Rio Blanco.

DRAINAGE AREA.--103 mi² (267 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,130 ft (1,868 m), from topographic map.

REMARKS.--Records good. Diversions for irrigation of about 160 acres (648,000 m²) above station.

AVERAGE DISCHARGE.--7 years, 6.24 ft³/s (0.177 m³/s), 4,520 acre-ft/yr (5.57 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 255 ft³/s (7.22 m³/s) July 18, 1981, gage height, 3.56 ft (1.085 m), result of indirect measurement of peak flow; minimum daily, 0.20 ft³/s (0.006 m³/s) May 12, 13, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43 ft³/s (1.22 m³/s) at 1930 Aug. 17, gage height, 2.37 ft (0.722 m); minimum daily, 0.82 ft³/s (0.023 m³/s) May 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	4.7	4.9	5.6	4.9	4.9	5.7	2.0	4.7	4.6	6.5	6.8
2	1.5	4.9	5.3	4.7	4.4	4.9	5.7	1.9	4.2	4.6	7.3	7.6
3	1.7	5.7	4.7	4.4	3.9	4.9	5.7	1.5	4.2	4.4	7.7	7.5
4	1.8	5.3	5.0	3.5	2.7	4.7	5.7	.82	4.2	4.4	6.4	7.1
5	2.1	5.3	5.3	4.9	2.5	4.7	5.7	1.1	4.0	4.2	6.8	7.5
6	2.0	4.9	5.6	4.4	2.5	4.7	5.7	1.7	4.0	4.2	6.0	7.9
7	4.2	4.9	5.3	2.5	3.0	4.7	5.6	2.9	2.7	3.9	5.6	7.8
8	5.6	4.9	5.3	2.7	3.8	4.7	6.0	2.8	2.9	6.6	4.9	7.8
9	4.8	4.7	5.3	3.3	3.8	4.9	5.6	2.6	3.4	7.2	6.0	7.8
10	4.6	4.7	5.3	4.0	4.7	4.9	5.2	3.3	3.0	5.2	4.9	7.8
11	4.8	4.7	5.3	4.5	4.5	4.9	5.2	4.4	3.4	4.2	4.6	12
12	4.4	4.9	5.3	4.5	4.2	4.9	5.2	6.9	3.6	3.3	5.2	12
13	4.1	4.9	5.3	4.2	4.5	5.2	5.6	4.9	4.1	2.5	7.1	12
14	4.1	4.9	5.3	4.0	4.5	5.2	5.6	3.3	4.5	2.2	5.9	11
15	5.1	5.3	5.6	4.0	5.8	5.2	5.5	2.9	4.1	2.1	5.1	11
16	5.5	5.3	5.3	4.0	6.1	5.6	5.2	3.1	4.3	2.0	4.8	10
17	4.3	5.3	4.9	3.8	8.9	5.9	4.8	2.9	4.3	2.1	7.2	9.5
18	3.9	5.6	4.7	3.8	7.0	5.5	4.6	2.5	4.5	2.1	14	9.8
19	4.1	5.3	5.3	3.8	7.9	5.5	4.8	2.0	4.3	2.5	6.6	11
20	3.8	5.3	5.3	3.8	9.9	5.5	4.8	2.0	4.1	2.2	6.6	12
21	3.8	5.6	5.6	4.1	10	5.1	5.1	2.2	4.3	2.3	8.2	9.4
22	4.1	5.6	5.3	3.6	10	4.8	5.1	2.5	3.9	3.2	8.2	8.9
23	4.1	5.3	3.7	3.6	8.5	5.1	5.1	2.5	5.5	3.9	8.6	8.4
24	4.3	5.3	2.7	3.9	6.0	5.5	4.8	3.3	6.6	3.7	8.6	8.3
25	4.3	5.3	3.0	4.1	5.6	5.8	4.8	3.5	5.9	4.1	7.3	8.3
26	4.5	4.4	3.0	4.3	5.3	6.2	4.1	2.5	5.5	4.3	8.1	8.3
27	4.7	4.9	3.0	4.8	5.3	6.2	3.0	2.4	5.1	4.5	7.6	9.2
28	4.7	4.7	3.1	4.6	5.3	6.2	1.8	2.4	5.5	9.7	7.2	10
29	5.0	4.9	4.4	4.8	---	6.1	1.9	2.5	4.8	8.7	6.8	10
30	5.0	5.3	5.6	4.1	---	5.8	2.0	3.8	4.4	6.9	6.8	9.2
31	4.9	---	5.3	4.6	---	5.7	---	4.7	---	6.5	6.8	---
TOTAL	123.4	152.8	149.0	126.9	155.5	163.9	145.6	87.82	130.0	132.3	213.4	275.9
MEAN	3.98	5.09	4.81	4.09	5.55	5.29	4.85	2.83	4.33	4.27	6.88	9.20
MAX	5.6	5.7	5.6	5.6	10	6.2	6.0	6.9	6.6	9.7	14	12
MIN	1.5	4.4	2.7	2.5	2.5	4.7	1.8	.82	2.7	2.0	4.6	6.8
AC-FT	245	303	296	252	308	325	289	174	258	262	423	547

CAL YR 1981 TOTAL 1352.70 MEAN 3.71 MAX 12 MIN 1.1 AC-FT 2680
WTR YR 1982 TOTAL 1856.52 MEAN 5.09 MAX 14 MIN .82 AC-FT 3680

09306175 BLACK SULPHUR CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1975 to September 1981, November 1981 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1975 to September 1981 (discontinued).
WATER TEMPERATURE: April 1975 to September 1981 (discontinued).
SUSPENDED-SEDIMENT DISCHARGE: October 1975 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor since April 1975. Pumping sediment sampler since October 1975.

REMARKS.--Interruptions in record due to instrument malfunctions. Daily maximum and minimum specific-conductance data available in district office. Daily sediment for April through September 1980 is published in this report.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,920 micromhos Oct. 16, 1975; minimum, 200 micromhos July 17, 1981.
WATER TEMPERATURES: Maximum, 24.0°C July 30, 1976; minimum, 0.0°C many days during winter months some years.
SEDIMENT CONCENTRATIONS: Maximum daily, 19,800 mg/L Aug. 5, 1978; minimum daily, 7 mg/L estimated Oct. 1, 1979.
SEDIMENT LOADS: Maximum daily, 775 tons (703 t) May 14, 1980; minimum daily, 0.01 ton (0.01 t) May 12-14, 1978.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,910 micromhos May 3, July 11; minimum, 200 micromhos July 17.
WATER TEMPERATURES: Maximum, 23.0°C June 29, 30, July 22, 25; minimum, 0.0°C Feb. 2, 3, Mar. 31.
SEDIMENT CONCENTRATIONS: Maximum, 2,620 mg/L July 11; minimum 11 mg/L May 12.
SEDIMENT LOADS: Maximum, 697 tons (632 t) July 17; minimum, 0.04 ton (0.04 t) May 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
NOV										
24...	1310	4.9	1520	1490	8.3	8.0	11.2	--	560	87
MAR										
24...	1100	4.7	1500	1460	8.2	8.0	9.8	--	570	86
MAY										
19...	1350	2.4	1780	1770	8.0	14.0	9.0	1.1	670	100
SEP										
23...	0855	8.5	1410	1430	8.4	9.0	8.9	--	570	92

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV										
24...	82	130	2.8	1.8	320	440	12	.3	16	967
MAR										
24...	86	130	2.7	1.8	350	410	20	.4	17	966
MAY										
19...	100	170	3.3	3.2	520	530	11	.5	18	1250
SEP										
23...	82	130	2.7	1.6	417	350	20	.4	19	950

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
NOV										
24...	1.3	12.8	.31	.020	--	.33	.29	.170	--	1.0
MAR										
24...	1.3	12.3	--	--	--	--	--	--	--	--
MAY										
19...	1.7	8.1	--	--	<.020	--	.26	--	.110	--
SEP										
23...	1.3	21.8	--	--	--	--	--	--	--	--

09306175 BLACK SULPHUR CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	BORON, DISSOLVED (UG/L AS B)	STRONTIUM, DISSOLVED (UG/L AS SR)
NOV 24...	--	1.20	--	1.5	.030	--	<.020	<.020	130	4100
MAR 24...	--	--	--	--	--	--	--	--	120	4100
MAY 19...	.72	--	.83	--	--	.050	--	.030	160	5200
SEP 23...	--	--	--	--	--	--	--	--	120	3800

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)
NOV 24...	450	1	2	100	65	<10	<1	<1	10	<1	--
MAY 19...	--	--	2	--	57	--	--	--	--	--	1

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
NOV 24...	5	5	480	10	6	<1	20	18	50	30	<.1
MAY 19...	--	--	--	15	--	--	--	25	--	94	--

DATE	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
NOV 24...	.1	10	--	2	--	1	1	<1	10	14	.00
MAY 19...	--	--	10	--	4	--	--	--	--	<12	--

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
OCT 01...	0945	1.6	46	.20
NOV 24...	1310	4.9	18	.24
MAR 24...	1100	4.7	241	3.1
MAY 19...	1350	2.4	32	.21
SEP 23...	0855	8.5	499	11

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°55'16", long 108°17'49", in sec.32, T.1 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank at downstream side of bridge, 40 ft (12 m) downstream from Ryan Gulch, and 23 mi (37 km) northwest of Rio Blanco.

DRAINAGE AREA.--506 mi² (1,310 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR Colo. 1973: 1972(M); WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,070 ft (1,850 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation above station.

AVERAGE DISCHARGE.--18 years, 19.9 ft³/s (0.564 m³/s) 14,420 acre-ft/yr (17.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 400 ft³/s (11 m³/s), estimated, Mar. 9, 1966, gage height, 6.23 ft (1.899 m); minimum daily, 0.15 ft³/s (0.004 m³/s) June 7, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 60 ft³/s (1.70 m³/s) at 1930 July 28, gage height, 3.62 ft (1.103 m), no peak above base of 100 ft³/s (2.8 m³/s); minimum daily, 3.4 ft³/s (0.096 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	22	22	20	18	22	22	6.6	11	10	9.1	21
2	3.7	22	24	20	17	22	22	6.1	12	7.4	12	21
3	5.2	24	20	20	17	24	21	6.2	11	4.6	14	20
4	7.0	23	20	20	18	28	21	5.9	11	6.5	12	19
5	8.4	22	20	20	18	26	20	8.2	10	7.9	13	19
6	6.9	21	21	20	18	24	21	8.0	9.7	7.1	13	20
7	10	22	21	20	19	23	21	8.4	9.2	7.5	13	19
8	15	23	21	19	19	22	20	8.0	9.2	7.2	14	22
9	15	23	21	18	19	22	21	7.5	8.7	10	16	24
10	15	23	20	18	19	22	20	8.2	7.2	8.6	17	27
11	15	22	20	18	19	21	20	8.6	8.3	6.9	19	33
12	16	23	20	18	20	23	20	10	9.0	7.6	21	33
13	16	24	20	18	20	25	20	16	8.0	5.9	33	35
14	15	23	20	19	20	27	16	16	8.3	4.6	24	35
15	15	23	20	19	20	30	16	14	8.0	6.8	22	32
16	18	23	19	19	25	29	17	11	7.8	5.1	20	30
17	15	22	19	19	23	26	16	11	9.2	5.2	23	27
18	15	23	20	19	28	25	10	12	8.2	6.4	33	27
19	15	22	20	19	25	24	11	11	10	9.2	22	29
20	15	22	19	19	28	23	9.9	12	10	7.4	20	30
21	15	23	20	19	33	22	10	13	11	5.6	20	28
22	15	24	20	19	37	22	10	9.3	11	8.0	20	26
23	16	24	20	19	39	21	10	8.0	11	8.9	24	25
24	16	23	20	19	32	21	8.1	11	12	8.6	23	24
25	16	23	20	19	24	21	9.1	11	12	8.1	21	24
26	15	23	20	19	23	21	8.5	10	12	8.2	22	26
27	15	22	20	19	23	21	8.3	11	11	11	21	27
28	15	22	20	18	22	21	6.7	13	11	24	22	30
29	16	21	20	18	---	22	7.5	10	10	18	23	30
30	19	21	20	18	---	22	7.1	9.4	9.0	11	24	30
31	22	---	20	18	---	21	---	11	---	8.5	23	---
TOTAL	424.6	678	627	587	643	723	450.2	311.4	295.8	261.8	613.1	793
MEAN	13.7	22.6	20.2	18.9	23.0	23.3	15.0	10.0	9.86	8.45	19.8	26.4
MAX	22	24	24	20	39	30	22	16	12	24	33	35
MIN	3.4	21	19	18	17	21	6.7	5.9	7.2	4.6	9.1	19
AC-FT	842	1340	1240	1160	1280	1430	893	618	587	519	1220	1570

CAL YR 1981 TOTAL 5492.74 MEAN 15.0 MAX 32 MIN .15 AC-FT 10890
WTR YR 1982 TOTAL 6407.90 MEAN 17.6 MAX 39 MIN 3.4 AC-FT 12710

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1970 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1979 to September 1982, (discontinued).
WATER TEMPERATURE: December 1979 to September 1982, (discontinued).
SUSPENDED-SEDIMENT DISCHARGE: October 1972 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler since October 1972. Water-quality monitor since December 1979.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum 2,920 micromhos July 18, 1981; minimum, 520 micromhos July 18, 1981.
WATER TEMPERATURES: Maximum 26.5°C June 22, 1981; minimum, 0.0°C on many days during the winter period.
SEDIMENT CONCENTRATIONS: Maximum daily, 21,700 mg/L July 20, 1977; minimum daily, 8 mg/L Oct. 14, 1979, several days in Sept. 1981.
SEDIMENT LOADS: Maximum daily, 4,160 tons (3,770 t) July 20, 1977; minimum daily, 0.05 ton (0.05 t) Sept. 27, 30, 1981.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,330 micromhos Oct. 2; minimum 710 micromhos Feb. 22.
WATER TEMPERATURE: Maximum, 23.5 on a few days May to Aug.; minimum 0.0°C many days during November to April.
SEDIMENT CONCENTRATIONS: Maximum daily, 9,300 mg/L estimated July 28; minimum daily, 12 mg/L estimated May 2.
SEDIMENT LOADS: Maximum daily, 600 tons (544 t) estimated July 28; minimum daily, 0.20 ton (0.18 t) May 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
DEC										
02...	1100	23	1400	1430	8.2	.0	11.4	—	490	77
MAR										
24...	1140	21	1350	1360	8.2	6.0	9.8	--	460	71
APR										
14...	1000	16	1350	1300	8.3	8.5	9.6	.93	480	75
MAY										
24...	1015	11	2000	1990	8.3	13.0	9.7	--	620	82
JUN										
09...	1100	9.5	2200	2140	8.3	13.0	9.1	—	650	77
JUL										
29...	0915	21	1690	1720	8.2	14.0	7.6	1.8	560	88
SEP										
23...	0955	26	1390	1400	8.5	11.0	8.6	1.4	470	72

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
DEC										
02...	71	160	3.6	2.5	480	340	15	.8	17	978
MAR										
24...	67	140	3.3	2.3	350	350	14	.6	15	873
APR										
14...	70	140	3.2	2.5	350	400	16	.7	15	934
MAY										
24...	100	240	4.9	4.8	660	490	18	.8	19	1360
JUN										
09...	110	270	4.6	3.8	713	490	21	1.0	19	1420
JUL										
29...	83	210	4.4	5.7	479	420	18	.9	19	1140
SEP										
23...	69	160	3.7	2.4	435	300	16	1.1	16	903

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
DEC 02...	1.3	60.7	.52	.030	--	.55	.57	.140	--	.45
MAR 24...	1.2	49.5	--	--	--	--	--	--	--	--
APR 14...	1.3	40.3	--	--	<.020	--	.34	--	.100	--
MAY 24...	1.9	40.4	--	--	<.020	--	<.10	--	.060	--
JUN 09...	1.9	36.4	--	--	<.020	--	<.10	--	.090	--
JUL 29...	1.6	64.6	--	--	<.020	--	.50	--	.190	--
SEP 23...	1.2	63.4	--	--	<.020	--	.51	--	.090	--

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)
DEC 02...	--	.59	--	1.1	.050	--	.070	.060	200	2800
MAR 24...	--	--	--	--	--	--	--	--	170	2600
APR 14...	.49	--	.59	--	--	<.010	--	.020	150	2700
MAY 24...	1.3	--	1.4	--	--	.060	--	.080	260	3700
JUN 09...	1.2	--	1.3	--	--	.090	--	.110	280	3000
JUL 29...	1.1	--	1.3	--	--	.090	--	.100	250	3000
SEP 23...	.81	--	.90	--	--	.020	--	.030	210	2700

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT DIS- SOLVED (UG/L AS CO)
DEC 02...	1100	570	2	2	100	77	<10	<1	<1	10	1	--
MAY 24...	1015	--	--	3	--	91	--	--	--	--	--	1

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
DEC 02...	5	<1	1400	12	4	1	10	16	110	54	<.1
MAY 24...	--	--	--	37	--	--	--	29	--	160	--

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
DEC 02...	<.1	7	--	3	--	1	1	<1	20	27	.00
MAY 24...	--	--	4	--	<1	--	--	--	--	<12	--

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
01...	0815	4.6	28	.35
NOV				
05...	1340	22	139	8.3
DEC				
02...	1100	23	98	6.1
MAR				
24...	1225	21	367	21
APR				
14...	1000	16	251	11
MAY				
24...	1015	11	68	2.0
MAY				
28...	1225	15	142	5.8
JUN				
09...	1100	9.5	88	2.3
25...	1100	12	39	1.3
JUL				
29...	0915	21	558	32
AUG				
18...	1750	28	1045	79
SEP				
23...	0955	26	389	27

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2180	1670	1460	1390	1410	1330		---	1980	1920	1850	1470
2	2230	1670	1450	1440	1420	1330		---	1920	1980	1800	1480
3	2080	1640	1460	1450	---	1230		---	---	2060	1710	1470
4	2050	1620	1450	1520	---	1240		1830	---	2030	1680	1470
5	2000	1600	1450	1420	1450	1280		---	---	1980	1660	1450
6	2080	1600	1450	1450	1560	1330		---	2150	1980	1640	1430
7	2030	1580	1450	1610	1530	1340		---	2190	1980	1680	1410
8	1820	1550	1450	1590	1450	1330		---	2180	2020	1650	1410
9	1830	1540	1450	1480	1430	1320		---	2190	1850	1650	1400
10	1820	1540	1440	1450	1390	1310		---	2200	1910	1670	1340
11	1780	1540	1440	1420	---	---		---	2190	1930	1630	1340
12	1770	1520	1440	---	1380	---		---	2120	1920	1580	1290
13	1790	1480	1430	1410	---	---		---	2170	2000	1350	1240
14	1800	1470	1430	1440	---	---		---	2130	2040	1580	1160
15	1780	1470	1440	1410	---	---		---	2150	1990	1610	1080
16	1770	1460	1430	---	1290	---		---	2140	2000	1630	1100
17	1800	1450	1390	---	1190	---		1810	2060	2020	1570	1150
18	1790	1440	1450	---	1230	---		1820	2100	1990	1310	1180
19	1790	1450	1430	---	1230	---		1850	2100	1880	1490	1260
20	1800	1460	1450	---	1110	---		1840	2080	1930	1540	1430
21	1800	1450	1420	---	1050	---		1870	2040	2000	1530	1590
22	1790	1430	1430	---	999	---		2000	2070	1940	1520	1650
23	1790	1420	1450	---	1070	---		2030	2050	1880	1450	1440
24	1780	1440	1430	---	1190	---		1990	2000	1860	1470	1370
25	1760	1440	---	1410	1320	---		1940	1970	1860	1520	1370
26	1770	1460	---	1410	1330	---		1990	1960	1870	1520	1360
27	1720	1440	---	1390	1320	---		1970	1950	1840	1540	1340
28	1710	1450	1530	1430	1330	---		1870	1940	1640	1530	1340
29	1700	1450	1500	1410	---	---		1920	1940	1610	1510	1340
30	1660	1450	1370	1450	---	---		1990	1960	1780	1490	1330
31	1670	---	1400	1420	---	---		1930	---	1840	1470	---
MEAN	1840	1510	1440						2070	1920	1580	1360

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.5	6.0	8.5	2.0	.0	.0	.0	.0	3.5	.0	6.5	3.0
2	15.5	9.5	9.5	3.0	1.5	.0	.0	.0	3.5	.0	10.0	5.0
3	16.0	10.5	9.5	3.5	4.0	1.5	.0	.0	.5	.0	6.5	4.0
4	12.0	9.5	9.5	3.5	3.5	.0	.0	.0	.0	.0	6.5	1.0
5	13.5	8.5	9.0	3.5	5.5	1.5	.0	.0	.0	.0	6.5	2.0
6	17.0	6.5	9.0	4.0	5.5	1.0	.0	.0	.0	.0	8.0	.0
7	16.0	7.5	9.5	6.0	5.5	1.0	.0	.0	.0	.0	8.0	2.0
8	11.5	9.5	8.5	4.0	5.0	1.0	.0	.0	.0	.0	7.0	2.5
9	14.0	8.0	8.5	3.0	4.5	.5	.0	.0	.0	.0	9.0	2.0
10	13.5	7.5	7.5	2.5	6.0	2.0	.0	.0	.0	.0	7.0	.5
11	10.5	8.5	8.0	2.5	6.0	2.5	.0	.0	.0	.0	---	---
12	12.5	7.0	7.5	2.5	5.0	1.5	.0	.0	.0	.0	---	---
13	13.0	7.5	8.5	4.0	4.0	2.5	.0	.0	.0	.0	---	---
14	13.0	8.0	8.5	5.5	4.0	1.0	.0	.0	.0	.0	---	---
15	9.5	7.0	8.0	5.0	5.5	2.5	.0	.0	3.5	.0	---	---
16	10.5	7.0	9.0	4.0	3.0	.0	.0	.0	5.0	2.0	---	---
17	12.0	7.0	7.5	3.5	2.5	.0	.0	.0	7.0	1.5	---	---
18	13.0	6.0	5.5	3.5	.5	.0	.0	.0	7.0	.5	---	---
19	13.0	4.5	5.0	.5	4.0	.5	.0	.0	7.0	.0	---	---
20	13.0	4.5	4.0	.0	6.5	2.5	1.0	.0	8.0	1.0	---	---
21	12.5	4.5	5.0	1.5	4.5	2.5	2.0	.0	9.0	1.0	---	---
22	11.5	4.0	6.5	3.0	2.5	.0	.5	.0	9.0	1.5	---	---
23	11.5	3.5	7.5	4.5	.0	.0	.0	.0	8.0	2.5	---	---
24	8.0	6.0	7.5	3.5	.0	.0	.0	.0	7.0	1.0	---	---
25	11.5	5.0	5.0	.5	.0	.0	3.0	.0	8.5	2.0	---	---
26	11.5	3.5	2.0	.0	.0	.0	5.5	.5	8.5	1.5	---	---
27	11.5	5.5	1.0	.0	.0	.0	5.5	.5	8.0	3.0	---	---
28	10.5	5.0	2.5	.0	.0	.0	3.5	.0	10.0	3.0	---	---
29	9.0	6.5	2.5	.5	.0	.0	3.0	.0	---	---	---	---
30	8.0	3.0	2.5	.0	.0	.0	1.5	.0	---	---	---	---
31	8.0	1.5	---	---	.0	.0	2.5	.0	---	---	---	---
MONTH	18.5	1.5	9.5	.0	6.5	.0	5.5	.0	10.0	.0		

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	16.5	7.0	17.5	8.5	20.5	13.0	22.5	13.0	20.0	12.0
2	---	---	17.5	7.0	20.0	7.5	21.5	10.5	20.5	15.5	19.0	11.0
3	---	---	18.5	9.5	20.5	9.5	22.5	10.5	22.0	13.5	19.5	11.0
4	---	---	12.5	9.0	20.0	8.5	22.0	11.0	23.0	13.0	18.5	12.0
5	---	---	16.0	4.5	19.0	7.5	16.5	13.0	22.5	12.5	19.5	13.5
6	---	---	17.5	2.0	20.5	6.5	22.0	9.0	23.5	13.0	17.0	11.0
7	---	---	14.5	4.0	20.5	7.0	20.0	10.5	22.0	13.5	15.0	11.5
8	---	---	16.5	7.5	20.5	7.5	20.0	12.5	18.5	14.0	16.5	11.5
9	---	---	15.0	6.5	22.0	7.5	20.0	11.5	21.5	14.0	17.0	11.5
10	---	---	13.0	6.0	19.0	8.0	22.0	10.5	20.5	13.5	15.5	12.5
11	---	---	13.5	6.5	21.5	9.0	20.0	12.0	19.5	14.0	14.5	12.0
12	---	---	9.5	6.0	17.5	9.5	21.5	11.0	18.5	14.0	13.5	10.5
13	---	---	11.5	5.5	18.5	9.5	19.5	12.5	16.0	12.5	12.5	10.0
14	---	---	13.5	7.5	18.5	8.5	20.5	11.0	21.5	13.5	10.5	9.0
15	---	---	14.0	7.0	21.0	9.0	21.5	11.5	21.0	13.5	13.5	9.0
16	---	---	14.0	7.5	22.0	9.5	21.5	11.0	19.0	14.0	14.5	10.5
17	---	---	19.5	8.0	22.5	11.5	20.0	14.0	19.5	13.0	15.0	12.0
18	---	---	18.0	7.5	19.0	12.0	22.0	13.0	21.5	13.5	14.5	11.0
19	---	---	15.5	8.0	21.5	9.5	23.0	12.5	21.0	14.0	13.0	10.5
20	---	---	17.0	7.5	23.0	10.0	21.5	12.5	19.0	13.5	15.0	10.5
21	---	---	20.5	6.0	17.5	11.0	22.0	13.0	20.5	14.0	15.5	11.0
22	15.0	1.5	19.0	6.5	17.5	12.0	22.0	15.0	19.0	15.0	16.0	11.0
23	12.5	5.0	22.0	8.5	19.0	10.5	23.5	14.5	19.0	12.5	16.0	11.0
24	17.5	4.5	19.0	8.0	20.5	10.5	22.0	15.5	21.0	14.0	15.0	10.5
25	13.5	6.0	21.0	7.0	17.5	11.5	22.0	14.0	17.5	13.5	14.0	11.5
26	12.5	6.0	23.5	7.5	21.0	9.5	21.5	15.5	19.5	12.5	14.5	12.0
27	15.5	7.0	20.5	8.0	23.5	11.0	20.5	14.5	17.5	12.0	14.0	12.0
28	19.5	4.5	19.0	8.5	23.0	11.5	18.5	15.0	19.0	12.0	11.5	9.5
29	15.0	7.0	19.0	7.5	21.0	11.5	21.5	14.0	18.5	13.0	10.0	8.5
30	17.0	4.5	15.0	9.0	22.0	13.0	23.5	14.0	19.5	12.5	11.5	9.0
31	---	---	21.0	6.5	---	---	23.5	13.5	18.0	12.5	---	---
MONTH			23.5	2.0	23.5	6.5	23.5	9.0	23.5	12.0	20.0	8.5
YEAR	23.5	.0										

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	3.4	28	.26	22	---	6.5	22	---	6.0
2	3.7	---	.40	22	---	7.0	24	98	6.3
3	5.2	---	.60	24	---	9.0	20	173	9.3
4	7.0	---	.70	23	---	8.5	20	---	9.5
5	8.4	---	.80	22	139	8.3	20	188	10
6	6.9	---	.80	21	---	8.0	21	---	9.5
7	10	---	1.5	22	---	8.0	21	---	9.0
8	15	---	2.0	23	---	7.5	21	---	9.0
9	15	---	2.0	23	---	7.0	21	155	8.8
10	15	---	2.0	23	---	7.0	20	---	8.5
11	15	---	2.0	22	---	7.0	20	---	8.5
12	16	---	2.0	23	---	7.0	20	---	8.5
13	16	---	2.5	24	---	7.5	20	---	8.0
14	15	---	2.5	23	---	7.0	20	---	8.0
15	15	---	2.5	23	---	7.0	20	---	8.0
16	18	---	3.5	23	---	7.0	19	---	8.5
17	15	---	2.5	22	---	7.0	19	---	8.5
18	15	---	3.0	23	---	7.0	20	---	12
19	15	---	3.0	22	---	6.5	20	---	9.0
20	15	---	3.0	22	---	6.5	19	---	8.0
21	15	---	3.0	23	---	6.5	20	---	8.0
22	15	---	3.0	24	---	6.5	20	---	8.5
23	16	---	3.5	24	---	6.0	20	---	8.5
24	16	---	3.5	23	---	5.5	20	---	9.0
25	16	---	3.5	23	---	5.5	20	---	9.0
26	15	---	3.5	23	---	6.0	20	---	11
27	15	---	3.5	22	---	6.0	20	---	10
28	15	---	3.5	22	---	6.0	20	---	12
29	16	---	3.5	21	---	5.0	20	---	8.0
30	19	---	5.0	21	---	5.0	20	---	9.0
31	22	---	6.0	---	---	---	20	---	10
TOTAL	424.6	---	79.06	678	---	204.3	627	---	275.9

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	20	---	9.0	18	300	15	22	---	10
2	20	---	9.5	17	275	13	22	---	10
3	20	---	9.5	17	253	12	24	---	15
4	20	---	9.5	18	---	15	28	---	15
5	20	---	9.0	18	---	15	26	---	15
6	20	---	8.5	18	---	15	24	---	15
7	20	---	8.0	19	361	19	23	---	10
8	19	---	8.0	19	182	9.3	22	---	10
9	18	---	8.0	19	179	9.2	22	---	10
10	18	---	8.0	19	167	8.6	22	---	10
11	18	170	8.3	19	108	5.5	21	---	10
12	18	199	9.7	20	---	6.0	23	---	10
13	18	361	18	20	---	6.0	25	---	15
14	19	251	13	20	---	6.0	27	---	20
15	19	304	16	20	---	6.0	30	---	25
16	19	228	12	25	---	8.0	29	---	25
17	19	359	18	23	---	7.0	26	---	20
18	19	418	21	28	---	9.0	25	---	20
19	19	523	27	25	---	7.0	24	---	20
20	19	379	19	28	---	9.0	23	---	19
21	19	311	16	33	---	25	22	---	19
22	19	185	9.5	37	---	60	22	---	20
23	19	329	17	39	---	80	21	---	21
24	19	223	11	32	---	20	21	361	20
25	19	354	18	24	---	15	21	---	25
26	19	408	21	23	---	15	21	---	25
27	19	277	14	23	---	15	21	---	25
28	18	301	15	22	---	10	21	522	30
29	18	221	11	---	---	---	22	---	31
30	18	398	19	---	---	---	22	---	32
31	18	341	17	---	---	---	21	---	31
TOTAL	587	---	417.5	643	---	440.6	723	---	583

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	22	---	30	6.6	---	.40	11	---	3.0
2	22	---	30	6.1	---	.20	12	---	4.0
3	21	---	25	6.2	---	.35	11	---	3.0
4	21	---	25	5.9	34	.54	11	---	3.0
5	20	---	20	8.2	80	1.8	10	---	2.5
6	21	---	20	8.0	91	2.0	9.7	---	2.0
7	21	---	20	8.4	74	1.7	9.2	---	1.5
8	20	---	20	8.0	56	1.2	9.2	---	2.0
9	21	---	20	7.5	40	.81	8.7	90	2.1
10	20	---	20	8.2	53	1.2	7.2	112	2.2
11	20	---	15	8.6	68	1.7	8.3	---	2.0
12	20	---	15	10	148	4.7	9.0	---	2.0
13	20	---	15	16	286	12	8.0	---	1.5
14	16	251	11	16	191	8.6	8.3	---	1.5
15	16	---	10	14	172	6.6	8.0	---	1.5
16	17	---	15	11	120	3.6	7.8	66	1.4
17	16	---	18	11	112	3.3	9.2	82	2.6
18	10	---	5.0	12	112	3.6	8.2	85	1.9
19	11	---	5.0	11	88	2.6	10	---	2.0
20	9.9	146	3.9	12	112	3.6	10	---	1.5
21	10	126	3.4	13	120	4.2	11	46	1.4
22	10	---	3.0	9.3	88	2.2	11	---	1.0
23	10	111	3.0	8.0	80	1.7	11	41	1.2
24	8.1	80	1.7	11	70	2.1	12	57	1.8
25	9.1	---	1.5	11	---	2.0	12	38	1.2
26	8.5	44	1.0	10	---	1.5	12	---	2.0
27	8.3	---	.90	11	---	2.0	11	---	3.0
28	6.7	47	.85	13	114	4.0	11	126	3.7
29	7.5	40	.81	10	---	3.0	10	---	2.5
30	7.1	18	.34	9.4	---	2.0	9.0	---	2.0
31	---	---	---	11	---	3.0	---	---	---
TOTAL	450.2	---	359.40	311.4	---	88.20	295.8	---	63.0

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	10	---	2.0	9.1	172	4.2	21	---	15
2	7.4	79	1.6	12	169	5.5	21	---	15
3	4.6	---	1.0	14	---	5.5	20	---	15
4	6.5	---	1.0	12	---	5.0	19	---	15
5	7.9	---	1.5	13	---	7.5	19	---	15
6	7.1	53	1.0	13	225	7.9	20	---	15
7	7.5	---	1.5	13	---	8.0	19	308	16
8	7.2	---	2.5	14	---	8.5	22	264	16
9	10	272	7.3	16	---	9.0	24	264	17
10	8.6	88	2.0	17	---	10	27	308	22
11	6.9	70	1.3	19	242	12	33	---	30
12	7.6	---	1.5	21	264	15	33	---	30
13	5.9	---	1.0	33	4770	523	35	---	35
14	4.6	---	1.0	24	330	21	35	---	35
15	6.8	---	1.0	22	---	15	32	---	30
16	5.1	---	1.0	20	239	13	30	---	30
17	5.2	---	1.0	23	1340	136	27	358	26
18	6.4	---	1.0	33	5040	538	27	---	25
19	9.2	---	1.5	22	561	33	29	---	30
20	7.4	---	1.0	20	352	19	30	---	35
21	5.6	53	.80	20	330	18	28	---	30
22	8.0	---	1.5	20	308	17	26	---	30
23	8.9	---	1.5	24	324	22	25	412	28
24	8.6	59	1.4	23	---	20	24	432	28
25	8.1	---	1.5	21	---	20	24	423	27
26	8.2	---	1.5	22	---	15	26	449	32
27	11	---	3.0	21	---	15	27	495	36
28	24	---	600	22	---	15	30	517	42
29	18	508	27	23	---	20	30	430	35
30	11	---	6.0	24	---	20	30	478	39
31	8.5	---	4.0	23	---	20	---	---	---
TOTAL	261.8	---	680.90	613.1	---	1598.1	793	---	794
YEAR	6407.9		5583.96						

09306222 PICEANCE CREEK AT WHITE RIVER, CO

LOCATION.--Lat 40°05'16", long 108°14'35", in SW¼NE¼ sec.2, T.1 N., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 900 ft (270 m) upstream from mouth, 1.0 mi (1.6 km) west of White River City, and 17 mi (27 km) west of Meeker.

DRAINAGE AREA.--652 mi² (1,689 km²) revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to September 1966, October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,705 ft (1,739 m), from topographic map. Oct. 1, 1964, to Sept. 30, 1966, and Oct. 1, 1970, to July 12, 1974, at several sites 1.1 mi (1.8 km) upstream at different datums.

REMARKS.--Records good except for winter period, which are poor. Diversions for irrigation of about 5,500 acres (22.3 km²) above station.

AVERAGE DISCHARGE.--14 years, 24.8 ft³/s (0.702 m³/s), 17,970 acre-ft/yr (22.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 628 ft³/s (17.8 m³/s) Sept. 7, 1978, gage height, 7.04 ft (2.146 m) on basis of slope-area measurement of peak flow; minimum daily discharge, 0.50 ft³/s (0.014 m³/s) July 21, 22, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (2.8 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Feb. 17	1830	ICE	JAM	* 5.19	1.582	Sept. 5	1830	* 253	7.16	3.93	1.198
July 28	2030	100	2.83	3.00	0.914						

Minimum daily discharge, 1.2 ft³/s (0.034 m³/s) June 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	36	25	24	25	38	28	8.6	1.8	4.5	10	23
2	6.5	37	26	24	25	38	32	7.8	1.8	4.2	20	26
3	7.5	37	28	24	25	40	30	8.4	1.6	4.0	23	27
4	8.0	36	28	24	25	42	29	7.7	1.8	4.0	19	28
5	10	35	29	24	25	40	29	5.6	1.7	3.5	17	45
6	9.0	33	31	24	25	37	29	5.8	1.7	4.0	15	30
7	8.2	33	31	24	25	37	31	5.8	1.5	3.7	13	27
8	14	34	31	24	25	37	28	5.9	1.5	3.6	14	28
9	18	35	30	24	25	36	30	5.5	1.6	3.6	17	28
10	18	34	30	24	25	35	29	5.7	1.9	3.2	18	32
11	22	34	30	24	26	35	29	6.2	2.1	3.1	19	43
12	25	33	30	24	26	35	29	7.0	1.9	3.1	23	45
13	28	36	29	24	27	39	29	11	1.8	3.2	29	49
14	34	36	29	24	28	39	23	7.1	2.2	3.6	32	47
15	32	35	29	24	29	41	21	7.4	2.0	3.1	27	45
16	38	35	29	24	38	43	22	5.8	2.2	2.9	20	39
17	30	34	29	24	32	41	22	5.3	2.0	3.0	16	34
18	27	34	23	24	43	37	18	4.9	2.0	2.5	27	33
19	26	34	30	24	38	35	15	5.4	1.7	2.9	26	35
20	27	33	29	24	50	34	15	4.7	1.3	3.0	20	38
21	26	34	30	24	66	32	14	4.7	1.2	2.8	16	34
22	25	35	28	24	70	30	14	4.5	1.2	3.0	16	32
23	25	36	21	24	60	30	14	3.7	1.5	3.2	19	31
24	26	35	16	24	57	28	12	3.3	1.8	3.3	22	28
25	28	35	22	24	44	28	11	3.0	1.7	3.8	19	27
26	24	30	22	24	41	28	12	3.2	2.0	3.5	19	28
27	24	28	22	24	40	33	12	3.6	2.2	2.8	16	37
28	24	28	24	24	38	30	8.9	5.1	2.4	16	16	40
29	30	27	24	24	---	29	8.7	3.6	2.9	40	16	37
30	33	27	24	24	---	31	9.2	3.0	3.7	21	17	35
31	34	---	24	24	---	28	---	2.4	---	14	20	---
TOTAL	693.0	1009	833	744	1003	1086	633.8	171.7	56.7	182.1	601	1031
MEAN	22.4	33.6	26.9	24.0	35.8	35.0	21.1	5.54	1.89	5.87	19.4	34.4
MAX	38	37	31	24	70	43	32	11	3.7	40	32	49
MIN	5.8	27	16	24	25	28	8.7	2.4	1.2	2.5	10	23
AC-FT	1370	2000	1650	1480	1990	2150	1260	341	112	361	1190	2040

CAL YR 1981 TOTAL 6899.1 MEAN 18.9 MAX 46 MIN 1.9 AC-FT 13680
WTR YR 1982 TOTAL 8044.3 MEAN 22.0 MAX 70 MIN 1.2 AC-FT 15960

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1970 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1971 to June 1974, May 1975 to current year.
WATER TEMPERATURES January 1971 to September 1974, May 1975 to current year.
SUSPENDED-SEDIMENT DISCHARGE: March 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since May 1974. Pumping sediment sampler since March 1974.

REMARKS.--Maximum and minimum values of specific conductance available in district office. Specific conductance values of 10,000 micromhos represent values of 10,000 micromhos or higher due to instrument limitations.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 10,000 micromhos June 18, 1981; minimum daily, 543 micromhos May 14, 1980.
WATER TEMPERATURES: Maximum, 32.0°C July 14, 1978; minimum, freezing point on many days during winter months.
SEDIMENT CONCENTRATIONS: Maximum daily, 25,000 mg/L estimated Sept. 7, 1978; 4 mg/L Oct. 2, 1977.
SEDIMENT LOADS: Maximum daily, 2,900 tons (2,630 t) estimated Sept. 7, 1978; minimum daily, 0.10 ton (0.09 t) June 22, 1978.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, not determined; minimum, not determined.
WATER TEMPERATURE: Maximum, not determined; minimum 0.0°C many days during October to April.
SEDIMENT CONCENTRATIONS: Maximum daily, 10,520 mg/L Sept. 8; minimum daily, 20 mg/L July 19.
SEDIMENT LOADS: Maximum daily, 3,750 tons (3,400 t) Sept. 8; minimum daily, 0.16 ton (0.14 t) July 19.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
DEC 02...	0945	26	2200	2110	8.4	.0	11.6	--	600	82	95
MAR 24...	1400	29	1800	1840	8.4	10.0	9.3	--	470	66	74
APR 14...	1210	22	1800	1750	8.2	13.0	8.9	1.2	430	57	70
MAY 24...	1340	3.6	4260	4390	8.7	20.5	9.0	--	480	44	90
JUN 09...	1240	1.7	4950	5170	8.7	20.5	9.1	--	570	45	110
AUG 04...	1415	17	2400	2410	8.6	26.0	6.6	1.7	530	59	92
SEP 23...	1115	31	1800	1780	--	13.5	8.7	1.3	450	63	71

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
DEC 02...	330	5.9	3.1	770	440	47	1.1	17	1480	2.0
MAR 24...	280	6.5	2.8	560	410	33	1.0	16	1220	1.7
APR 14...	290	7.1	2.9	620	330	39	1.1	14	1180	1.6
MAY 24...	950	19	5.4	1700	570	160	.5	23	2870	3.9
JUN 09...	1200	22	5.6	2080	640	200	19	12	3470	4.7
AUG 04...	400	7.6	4.9	801	470	46	1.1	17	1580	2.2
SEP 23...	270	6.4	2.8	589	330	31	1.2	16	1140	1.6

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
DEC 02...	104	.52	--	.030	--	.55	.58	.220	--	.51
MAR 24...	95.5	--	--	--	--	--	--	--	--	--
APR 14...	70.1	--	--	--	< .020	--	.30	--	.130	--
MAY 24...	27.9	--	--	--	< .020	--	< .10	--	< .060	--
JUN 09...	15.9	--	--	--	.020	--	< .10	--	.090	--
AUG 04...	72.5	--	--	--	< .020	--	.24	--	.170	--
SEP 23...	95.4	--	.35	--	.020	--	.37	--	.100	--

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	BORON, DISSOLVED (UG/L AS B)	STRONTIUM, DISSOLVED (UG/L AS SR)
DEC 02...	--	.73	--	1.3	.070	--	.070	.070	330	2700
MAR 24...	--	--	--	--	--	--	--	--	250	2600
APR 14...	.77	--	.90	--	--	.050	--	.060	250	2400
MAY 24...	--	--	1.4	--	--	.060	--	.080	730	2000
JUN 09...	.91	--	1.0	--	--	.110	--	.140	950	3600
AUG 04...	1.3	--	1.5	--	--	.100	--	.080	370	2800
SEP 23...	.80	--	.90	--	--	.020	--	.030	290	2400

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)
DEC 02...	0945	370	3	3	100	100	< 10	< 1	< 1	10	1	--
MAY 24...	1340	--	--	4	--	100	--	--	--	--	--	< 1

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
DEC 02...	4	1	460	60	12	2	40	40	60	50	< .1
MAY 24...	--	--	--	40	--	--	--	110	--	30	--

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
DEC											
02...	< .1	8	--	2	--	1	< 1	< 1	20	10	.00
MAY											
24...	--	--	6	--	1	--	--	--	--	10	--

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
MAR					JUN				
22...	1220	32	746	64	09...	1240	1.7	24	.11
24...	1400	29	577	45	23...	1030	1.5	109	.44
APR					AUG				
14...	1210	22	390	23	04...	1415	17	505	23
MAY					16...	1305	18	364	18
03...	1100	8.4	46	1.0	SEP				
24...	1340	3.6	37	.36	07...	1840	29	838	66
25...	1000	2.8	50	.38	23...	1115	31	473	40

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3130	2130	---	---		---	1890	2270	5100	---	---	2040
2	3060	2170	---	---		---	1810	2300	4890	---	---	---
3	3070	2150	---	---		---	1860	2340	5250	---	---	---
4	2990	2110	---	---		---	1880	2450	4780	---	---	---
5	2820	2100	---	2060		---	1880	2900	4680	---	2330	---
6	2900	2090	2000	---		---	1920	3130	4760	---	2370	---
7	2980	2090	2010	2090		---	1880	2950	4700	---	2520	1800
8	2740	2020	2000	2650		---	1920	2940	4980	---	2440	1820
9	2430	2010	2000	2410		---	1950	2990	4780	---	2390	1800
10	2440	2000	2000	2130		---	1950	2880	4430	---	2280	---
11	2340	2000	2000	2070		---	1950	2820	---	---	2260	---
12	2400	2000	2010	1970		---	1960	2980	---	---	2130	---
13	2430	1950	2000	2020		---	1920	2880	---	---	---	---
14	2330	1930	2000	2120		---	1850	2980	---	---	---	---
15	2320	1930	2010	2210		---	1840	2850	---	---	---	---
16	2280	1930	1990	2030		---	1760	3180	---	---	2180	---
17	2340	1940	---	1970		---	1720	3330	---	---	2230	---
18	2370	1930	---	1960		---	1870	3520	---	---	1910	---
19	2340	1940	1900	2010		---	2080	3160	---	---	1790	---
20	2300	1950	2000	2080		---	2030	3360	---	3910	2070	---
21	2300	1960	2010	---		---	2090	3550	---	4050	2190	---
22	2290	1950	1990	---		1810	2070	3630	---	3980	2180	---
23	2290	1950	2060	---		1800	2050	3900	5000	3690	2110	1700
24	2280	1940	2400	---		1820	2070	4090	4600	3410	1950	1690
25	2230	1940	2320	---		1830	2140	3300	5060	3170	2060	1680
26	2270	---	2170	---		1840	2090	3560	4830	3270	2050	1690
27	2290	---	2180	---		1800	2050	3800	4830	3890	2110	1680
28	2230	---	2180	---		1820	2110	3820	4770	4050	2130	1680
29	2230	---	2500	---		1840	2350	4730	4010	---	---	1700
30	2160	---	2060	---		1790	2220	4810	---	---	---	1690
31	2120	---	---	---		1860	---	5280	---	---	2120	---
MEAN	2470	2000					1970	3310				

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.0	5.0	7.5	.5	.5	.0	.0	.0			---	---
2	16.5	9.0	8.5	1.5	.5	.0	.0	.0			---	---
3	15.0	10.5	9.0	2.0	.5	.0	.0	.0			---	---
4	12.5	10.0	9.5	2.5	.0	.0	.0	.0			---	---
5	14.5	8.5	8.0	.5	.5	.0	.0	.0			---	---
6	17.5	6.0	9.0	3.0	2.5	.0	.5	.0			---	---
7	16.5	7.0	9.0	5.5	4.0	.0	.5	.0			---	---
8	12.5	9.5	8.0	3.5	3.5	.0	.5	.0			---	---
9	14.5	7.5	8.0	2.0	3.5	.0	.0	.0			---	---
10	15.0	5.5	7.0	1.5	4.5	.0	.0	.0			---	---
11	11.0	7.5	7.0	1.0	5.0	1.0	.0	.0			---	---
12	12.0	6.5	7.0	1.0	4.5	.0	.0	.0			---	---
13	13.0	7.0	8.5	2.0	3.5	1.0	.0	.0			---	---
14	12.5	8.5	7.5	4.5	3.0	.0	.0	.0			---	---
15	10.0	7.0	8.5	4.5	4.5	1.0	.0	.0			---	---
16	10.0	7.0	9.0	3.5	1.5	.0	.0	.0			---	---
17	12.5	7.0	6.5	2.0	1.0	.0	.0	.0			---	---
18	13.5	6.0	4.5	2.5	.5	.0	.0	.0			---	---
19	13.0	4.5	3.5	.0	2.0	.0	.0	.0			---	---
20	13.0	4.0	2.5	.0	5.0	1.0	.0	.0			---	---
21	12.0	4.5	4.0	.0	3.5	1.5	---	---			---	---
22	11.0	3.5	5.5	1.5	1.5	.0	---	---			8.5	2.5
23	11.0	2.5	7.0	4.0	.0	.0	---	---			10.5	.0
24	7.0	5.0	6.5	1.0	.0	.0	---	---			11.5	1.5
25	10.5	3.5	4.5	.0	.0	.0	---	---			12.5	2.0
26	11.0	2.5	.5	.0	.0	.0	---	---			8.0	5.0
27	10.5	4.5	.0	.0	.0	.0	---	---			11.0	5.5
28	10.0	3.5	.5	.0	.0	.0	---	---			11.5	4.5
29	8.0	6.0	.5	.0	.0	.0	---	---			7.5	3.0
30	6.0	1.5	.5	.0	.0	.0	---	---			7.0	1.0
31	6.5	.0	---	---	.0	.0	---	---			10.5	.0
MONTH	19.0	.0	9.5	.0	5.0	.0						

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.0	4.5	16.5	8.0	18.5	9.5	24.0	14.0	25.5	14.5	23.0	12.0
2	11.0	3.0	19.0	7.5	23.5	9.0	26.0	9.5	26.0	18.0	22.0	10.5
3	12.5	2.0	16.0	10.5	25.0	11.5	26.5	9.5	---	---	22.0	10.5
4	10.0	4.0	14.5	9.5	23.5	9.0	26.0	10.0	---	---	19.0	12.0
5	11.5	1.0	17.5	5.5	22.0	9.5	20.0	13.5	---	---	22.0	8.0
6	8.5	4.5	17.5	1.5	23.0	8.0	25.5	9.0	---	---	20.0	11.0
7	7.5	2.5	18.5	4.0	23.0	8.0	26.5	10.0	---	---	17.5	10.5
8	10.0	.0	18.0	8.5	22.5	9.0	24.0	13.0	---	---	18.5	11.0
9	12.0	1.0	17.5	8.0	25.0	8.0	24.0	13.5	---	---	19.0	10.5
10	13.5	1.5	17.0	6.5	23.5	10.5	27.5	11.0	---	---	19.0	13.0
11	15.0	5.0	15.0	7.5	27.0	11.5	26.5	13.0	---	---	15.0	10.5
12	14.5	8.0	9.0	6.0	21.5	12.5	27.0	11.5	---	---	16.0	10.0
13	15.0	5.5	12.0	5.5	23.0	11.5	23.0	13.5	---	---	12.0	8.5
14	16.0	5.5	18.5	7.0	21.5	11.5	26.5	12.0	---	---	12.0	8.0
15	14.0	5.0	19.0	6.5	21.5	12.0	26.0	12.0	---	---	16.0	8.0
16	14.0	3.5	19.5	7.0	27.5	12.0	26.0	11.0	---	---	17.5	10.0
17	15.0	1.5	21.5	7.0	26.5	13.5	24.5	14.5	---	---	18.5	12.0
18	16.0	3.5	20.5	9.0	22.5	14.0	25.5	13.0	---	---	19.0	10.0
19	9.5	2.5	---	---	25.5	11.0	27.5	13.0	---	---	16.0	11.0
20	6.5	.0	---	---	28.5	11.5	28.0	13.0	---	---	17.0	10.0
21	13.5	.0	---	---	22.0	11.5	29.5	13.5	---	---	18.5	10.5
22	17.0	.5	---	---	21.5	12.5	28.0	16.0	---	---	18.5	10.5
23	15.5	4.5	---	---	24.5	10.5	29.5	15.0	---	---	20.0	11.5
24	19.0	5.5	---	---	25.5	12.5	27.5	16.0	---	---	18.5	10.0
25	18.0	5.5	---	---	24.5	12.0	27.0	15.5	---	---	14.0	11.5
26	14.5	7.0	---	---	28.0	10.0	29.0	16.5	---	---	18.5	12.0
27	16.5	7.0	19.5	9.5	29.0	11.0	26.5	16.5	---	---	14.5	10.5
28	20.5	5.0	20.5	9.5	27.5	12.5	22.0	15.5	---	---	11.5	9.0
29	17.0	8.0	21.5	8.5	24.5	12.0	23.5	16.5	---	---	9.5	7.5
30	19.0	4.5	18.5	9.5	26.0	14.0	24.5	15.5	---	---	11.5	7.0
31	---	---	25.0	8.0	---	---	26.0	15.0	---	---	---	---
MONTH	20.5	.0			29.0	8.0	29.5	9.0			23.0	7.0

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	5.8	---	1.5	36	---	35	25	---	10
2	6.5	---	1.5	37	---	35	26	150	11
3	7.5	---	1.5	37	---	35	28	---	15
4	8.0	425	9.1	36	---	30	28	---	15
5	10	---	15	35	---	25	29	---	15
6	9.0	---	5.0	33	---	25	31	---	20
7	8.2	206	4.6	33	240	21	31	---	20
8	14	---	15	34	---	25	31	---	20
9	18	---	10	35	---	25	30	250	20
10	18	---	55	34	---	25	30	---	20
11	22	---	30	34	---	30	30	---	20
12	25	---	25	33	335	30	30	---	20
13	28	467	37	36	---	30	29	---	30
14	34	---	35	36	---	20	29	---	40
15	32	---	35	35	203	19	29	---	40
16	38	---	45	35	---	20	29	657	51
17	30	---	40	34	---	20	29	---	50
18	27	---	35	34	249	23	23	---	25
19	26	---	35	34	---	25	30	1200	85
20	27	---	35	33	---	25	29	---	80
21	26	497	35	34	---	20	30	---	80
22	25	---	30	35	---	25	28	---	75
23	25	---	30	36	---	25	21	1300	73
24	26	---	25	35	---	25	16	---	60
25	28	348	26	35	229	22	22	---	70
26	24	---	25	30	---	30	22	513	30
27	24	---	25	28	---	30	22	---	30
28	24	---	25	28	422	32	24	---	25
29	30	---	30	27	---	20	24	---	25
30	33	---	35	27	---	15	24	373	24
31	34	390	36	---	---	---	24	---	25
TOTAL	693.0	---	792.2	1009	---	767	833	---	1124

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	24	---	25	25			38	---	---
2	24	---	25	25			38	---	---
3	24	447	29	25			40	---	---
4	24	---	25	25			42	---	---
5	24	---	30	25			40	---	---
6	24	544	35	25			37	---	---
7	24	---	20	25			37	---	---
8	24	---	15	25			37	---	---
9	24	---	10	25			36	---	---
10	24	162	10	25			35	---	---
11	24	---	15	26			35	---	---
12	24	---	20	26			35	---	---
13	24	---	25	27			39	---	---
14	24	434	28	28			39	---	---
15	24	---	20	29			41	---	---
16	24	---	15	38			43	---	---
17	24	---	10	32			41	---	---
18	24	---	10	43			37	---	---
19	24	---	5.0	38			35	---	---
20	24	78	5.0	50			34	---	---
21	24	---	5.0	66			32	---	---
22	24	---	10	70			30	750	61
23	24	---	10	60			30	---	---
24	24	186	12	57			28	577	44
25	24	---	15	44			28	---	---
26	24	---	15	41			28	---	---
27	24	---	15	40			33	---	---
28	24	309	20	38			30	---	---
29	24	---	15	---			29	---	---
30	24	---	15	---			31	---	---
31	24	238	15	---			28	---	---
TOTAL	744	---	524.0	1003			1086	---	105

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	28	---	---	8.6	76	1.8	1.8	140	.68
2	32	---	---	7.8	78	1.6	1.8	165	.80
3	30	---	---	8.4	47	1.1	1.6	178	.77
4	29	---	---	7.7	---	1.0	1.8	---	.80
5	29	---	---	5.6	77	1.2	1.7	---	.80
6	29	---	---	5.8	---	.90	1.7	165	.76
7	31	---	---	5.8	42	.66	1.5	---	.60
8	28	---	---	5.9	54	.86	1.5	143	.58
9	30	---	---	5.5	---	.75	1.6	112	.48
10	29	---	---	5.7	40	.62	1.9	125	.64
11	29	---	---	6.2	76	1.3	2.1	130	.74
12	29	---	---	7.0	329	11	1.9	100	.51
13	29	---	---	11	359	11	1.8	---	.70
14	23	390	24	7.1	---	2.0	2.2	100	.59
15	21	---	---	7.4	104	2.1	2.0	---	.90
16	22	---	---	5.8	80	1.3	2.2	130	.77
17	22	---	---	5.3	---	.90	2.0	135	.73
18	18	---	---	4.9	50	.66	2.0	70	.38
19	15	---	---	5.4	64	.93	1.7	80	.37
20	15	---	---	4.7	---	.90	1.3	---	.30
21	14	---	---	4.7	80	1.0	1.2	---	.20
22	14	---	---	4.5	120	1.5	1.2	75	.24
23	14	---	---	3.7	55	.55	1.5	75	.30
24	12	---	---	3.3	70	.62	1.8	---	.30
25	11	---	---	3.0	95	.77	1.7	58	.27
26	12	---	---	3.2	98	.85	2.0	---	.30
27	12	---	---	3.6	169	1.8	2.2	---	.30
28	8.9	---	---	5.1	293	4.6	2.4	112	.36
29	8.7	48	1.1	3.6	120	1.2	2.9	---	.40
30	9.2	58	1.4	3.0	153	1.3	3.7	200	2.0
31	---	---	---	2.4	116	.80	---	---	---
TOTAL	633.8	---	26.5	171.7	---	57.57	56.7	---	17.57

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	4.5	---	1.0	10	---	15	23	510	32
2	4.2	155	1.8	20	---	600	26	---	30
3	4.0	---	1.0	23	---	50	27	---	30
4	4.0	---	1.0	19	500	26	28	365	28
5	3.5	104	.98	17	405	19	45	10500	3750
6	4.0	---	.60	15	---	15	30	---	140
7	3.7	58	.58	13	250	8.8	27	910	66
8	3.6	---	.50	14	---	9.5	28	---	60
9	3.6	---	.50	17	275	13	28	710	54
10	3.2	63	.54	18	---	10	32	---	50
11	3.1	---	.50	19	---	10	43	2900	353
12	3.1	150	1.3	23	249	15	45	1320	164
13	3.2	---	.85	29	800	63	49	1050	138
14	3.6	75	.73	32	800	69	47	824	106
15	3.1	---	.60	27	620	45	45	---	85
16	2.9	---	.60	20	380	21	39	---	65
17	3.0	78	.63	16	300	13	34	550	50
18	2.5	---	.30	27	1370	121	33	---	45
19	2.9	20	.16	26	---	35	35	450	43
20	3.0	---	.20	20	480	26	38	480	49
21	2.8	---	.20	16	---	15	34	460	42
22	3.0	---	.20	16	270	12	32	440	38
23	3.2	30	.26	19	300	15	31	---	30
24	3.3	---	.30	22	410	24	28	375	28
25	3.8	---	.50	19	225	12	27	---	25
26	3.5	---	.60	19	---	9.0	28	---	30
27	2.8	90	.68	16	160	6.9	37	750	74
28	16	---	1300	16	4350	303	40	670	72
29	40	---	390	16	390	17	37	---	60
30	21	---	30	17	---	15	35	---	50
31	14	---	20	20	340	18	---	---	---
TOTAL	182.1	---	1757.11	601	---	1631.2	1031	---	5787
YEAR	8044.3		12589.15						

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, CO

LOCATION.--Lat 39°54'22", long 108°31'56", in SE¼NW¼ sec.5, T.2 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 0.1 mi (0.2 km) downstream from Water Gulch and 19 mi (31 km) southeast of Rangely.

DRAINAGE AREA.--8.61 mi² (22.30 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder. Concrete control since Aug. 1, 1974. Prior to Aug. 1, 1974, water-stage recorder at different datum. Altitude of gage is 6,975 ft (2,126 m), from topographic map.

REMARKS.--Records fair except those for winter period, which are poor.

AVERAGE DISCHARGE.--8 years, 0.22 ft³/s (0.006 m³/s), 159 acre-ft/yr (0.20 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 272 ft³/s (7.70 m³/s) July 23, 1977, gage height, 3.20 ft (0.975 m), maximum gage height, 3.44 ft (1.049 m) Sept. 7, 1981 (from floodmark); no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.8 ft³/s (0.221 m³/s) at 1400 July 24, gage height, 2.02 ft (0.616 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.40	.20	.12	.17	.20	.07	.00	.39	.43	.50	.31
2	.16	.40	.18	.11	.15	.24	.07	.00	.35	.38	.50	.31
3	.19	.35	.12	.11	.23	.23	.10	.00	.38	.43	.58	.36
4	.34	.35	.12	.11	.20	.17	.09	.00	.41	.48	.50	.36
5	.38	.30	.13	.11	.19	.15	.09	.00	.45	.52	.50	.37
6	.20	.30	.12	.11	.18	.09	.10	.00	.49	.54	.50	.37
7	.21	.32	.12	.11	.17	.12	.05	.00	.53	.52	.50	.34
8	.45	.35	.12	.11	.16	.13	.07	.00	.52	.55	.64	.34
9	.29	.30	.12	.11	.17	.13	.04	.00	.52	.52	.64	.38
10	.29	.30	.12	.11	.18	.18	.05	.00	.56	.54	.55	.39
11	.64	.30	.12	.11	.18	.18	.07	.00	.55	.51	.55	.52
12	.33	.30	.12	.11	.18	.15	.04	.04	.55	.53	.47	.48
13	.20	.27	.12	.11	.18	.10	.03	.02	.50	.59	.43	.49
14	.20	.25	.12	.11	.18	.14	.02	.01	.50	.57	.39	.45
15	.27	.25	.12	.11	.18	.20	.03	.01	.58	.49	.35	.38
16	.20	.25	.12	.13	.18	.18	.01	.01	.49	.45	.39	.31
17	.15	.30	.12	.11	.18	.06	.02	.01	.44	.52	.43	.28
18	.17	.30	.12	.11	.18	.11	.01	.01	.48	.52	.39	.28
19	.17	.30	.12	.11	.18	.08	.02	.04	.43	.50	.36	.29
20	.20	.30	.12	.10	.18	.07	.02	.05	.39	.49	.36	.29
21	.20	.27	.12	.14	.18	.08	.01	.02	.38	.46	.32	.29
22	.15	.28	.12	.08	.18	.07	.01	.02	.34	.49	.36	.27
23	.15	.25	.12	.10	.14	.07	.01	.05	.46	.48	.36	.27
24	.12	.24	.12	.14	.13	.05	.00	.05	.45	.66	.33	.27
25	.15	.27	.12	.14	.17	.02	.00	.12	.46	.47	.33	.28
26	.15	.25	.12	.14	.16	.07	.01	.18	.48	.52	.33	.32
27	.17	.25	.12	.07	.23	.07	.01	.18	.47	.49	.37	.52
28	.16	.25	.12	.07	.19	.04	.01	.26	.42	.53	.37	.53
29	.30	.22	.12	.15	---	.04	.01	.33	.45	.54	.37	.49
30	.35	.22	.12	.17	---	.02	.01	.36	.43	.50	.37	.45
31	.40	---	.12	.33	---	.07	---	.35	---	.50	.34	---
TOTAL	7.48	8.69	3.87	3.75	4.98	3.51	1.08	2.12	13.85	15.72	13.38	10.99
MEAN	.24	.29	.12	.12	.18	.11	.036	.068	.46	.51	.43	.37
MAX	.64	.40	.20	.33	.23	.24	.10	.36	.58	.66	.64	.53
MIN	.12	.22	.12	.07	.13	.02	.00	.00	.34	.38	.32	.27
AC-FT	15	17	7.7	7.4	9.9	7.0	2.1	4.2	27	31	27	22

CAL YR 1981 TOTAL 62.89 MEAN .17 MAX 5.7 MIN .00 AC-FT 125
WTR YR 1982 TOTAL 89.42 MEAN .24 MAX .66 MIN .00 AC-FT 177

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to current year.
WATER TEMPERATURE: April 1974 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to September 1982 (discontinued).

INSTRUMENTATION.--Water-quality monitor since April 1974. Pumping sediment sampler since October 1974.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 6,490 micromhos Dec. 19, 1981; minimum, 230 micromhos Mar. 20, 1978.
WATER TEMPERATURES: Maximum, 33.5°C June 11, 1981; minimum, freezing point many days during winter months each year.
SEDIMENT CONCENTRATIONS: Maximum daily, 17,800 mg/L July 26, 1981; no flow many days during 1974-78, 1981.
SEDIMENT LOADS: Maximum daily, 162 tons (147 t) May 20, 1979; no flow many days during 1974-78, Dec. 15, 1979, 1981.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Not determined.
WATER TEMPERATURES: Maximum, not determined; minimum 0.0°C many days during November to May.
SEDIMENT CONCENTRATIONS: Maximum daily, 7,760 mg/L Aug. 8; minimum daily, no flow many days during year.
SEDIMENT LOADS: Maximum daily, 15 tons (13.8 t) Aug. 8; minimum daily, no flow many days during year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)
OCT 20...	1040	.30	1180	1060	8.1	4.5	760	9.4	99	.7
FEB 18...	1030	.06	1100	950	8.3	.0	--	9.9	--	--
MAY 24...	1120	.05	1150	1130	8.3	24.5	7.0	6.4	19	--
SEP 16...	0945	.28	1140	1150	8.3	8.5	--	9.0	--	--

DATE	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)
OCT 20...	K400	K75	510	100	63	94	1.9	2.2	350	.0
FEB 18...	--	--	490	94	63	87	1.7	1.4	340	--
MAY 24...	--	--	450	77	63	88	1.8	1.5	277	<.5
SEP 16...	--	--	500	96	62	87	1.7	1.0	341	--

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	BROMIDE DISSOLVED (MG/L AS BR)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT 20...	300	7.4	.3	.00	22	816	804	1.1	.65
FEB 18...	300	7.5	.3	--	22	--	780	1.1	.13
MAY 24...	300	7.5	.3	<.01	22	774	749	.99	.10
SEP 16...	290	7.8	.2	--	22	--	771	1.0	.58

K BASED ON NON-IDEAL COLONY COUNT.

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
OCT 20...	939	1.0	.000	.58	.58	.010	.010	90	6.8
FEB 18...	--	--	--	--	--	--	--	90	6.2
MAY 24...	9	--	.060	1.0	1.1	<.010	--	110	6.5
SEP 16...	--	--	--	--	--	--	--	170	5.9

DATE	ANTI-MONY, TOTAL (UG/L AS SB)	ARSENIC DIS-SOLVED (UG/L AS AS)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)
OCT 20...	1	6	.0	4	40	< 19	59
MAY 24...	1	4	<.1	5	1.2	< 16	1.7

DATE	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
OCT 20...	< 8.7	40	< 8.4	39	.10	4.9
MAY 24...	< 9.6	2.2	< 9.3	2.1	.08	5.4

DATE	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)	PCB, TOTAL (UG/L)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)
OCT 20...	> .01	0	0	.00	.00	.00	.00	.00	.00	.00	.00
MAY 24...	< .01	< 1	0	--	--	--	--	--	--	--	--

DATE	DI-ELDRIN TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)
OCT 20...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY 24...	--	--	--	--	--	--	--	--	--	--

DATE	METHYL TRI-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT 20...	.00	.00	.00	.00	0	.00	.01	.00	.00	.00
MAY 24...	--	--	--	--	--	--	--	--	--	--

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, CO--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
01...	1210	.15	554	.22
16...	1218	.23	1395	.87
20...	1040	.30	2085	1.7
28...	1345	.16	83	.04
NOV				
10...	1100	.50	3685	5.0
DEC				
07...	1142	.10	16	.00
FEB				
18...	1030	.06	14	.00
MAR				
26...	1145	.15	12500	5.1
MAY				
24...	1120	.05	348	.05
26...	1126	.16	719	.35
JUN				
24...	1852	.33	1482	1.3
AUG				
30...	1147	.32	136	.12
SEP				
16...	0945	.28	203	.15

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	---	1120	---	---
2								---	---	1110	---	---
3								---	---	1020	---	---
4								---	---	1020	1120	---
5								---	---	---	1110	---
6								---	---	---	1110	---
7								---	---	---	1110	1110
8								---	---	---	1100	1110
9								---	---	---	1110	1120
10								---	---	---	1120	1110
11								---	---	---	1110	1010
12								1110	---	---	1120	960
13								1100	---	---	1110	1080
14								1100	---	---	1110	1110
15								1100	---	---	1110	1110
16								1100	1110	---	1100	1110
17								1090	1110	---	1100	1110
18								1100	1100	---	1100	1110
19								1050	---	---	1090	1110
20								1040	---	1110	1100	1110
21								1040	---	1090	1110	1110
22								1010	---	1110	1100	---
23								---	---	1120	1120	---
24								---	1110	1110	1120	---
25								---	1110	1100	1110	---
26								---	---	1110	1110	---
27								---	---	1070	1100	---
28								---	---	1080	1090	---
29								---	---	---	1100	---
30								---	---	---	1100	---
31								---	---	---	---	---
MEAN											1110	

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			---	---	.0	.0	.0	.0	1.0	.0	---	---
2			---	---	.0	.0	.0	.0	.5	.0	---	---
3			---	---	.0	.0	.0	.0	.5	.0	---	---
4			---	---	.0	.0	.0	.0	.5	.0	---	---
5			---	---	.0	.0	.0	.0	.5	.0	---	---
6			---	---	.0	.0	.0	.0	1.5	.0	---	---
7			---	---	.0	.0	.0	.0	1.5	.0	---	---
8			---	---	.0	.0	.0	.0	1.0	.0	---	---
9			---	---	.0	.0	.0	.0	.0	.0	---	---
10			.0	.0	.0	.0	.0	.0	.0	.0	---	---
11			.0	.0	.0	.0	.0	.0	.5	.0	---	---
12			.0	.0	.0	.0	.0	.0	---	---	---	---
13			.0	.0	.0	.0	.0	.0	---	---	---	---
14			.0	.0	.0	.0	.0	.0	---	---	---	---
15			.0	.0	.0	.0	.0	.0	---	---	---	---
16			.0	.0	.0	.0	.0	.0	---	---	---	---
17			.0	.0	.0	.0	.0	.0	---	---	---	---
18			.0	.0	.0	.0	.0	.0	---	---	---	---
19			.0	.0	.0	.0	.0	.0	---	---	---	---
20			.0	.0	.0	.0	.5	.0	---	---	---	---
21			.0	.0	.0	.0	.5	.0	---	---	---	---
22			.0	.0	.0	.0	.5	.0	---	---	---	---
23			.0	.0	.0	.0	.0	.0	---	---	---	---
24			.0	.0	.0	.0	1.0	.0	---	---	---	---
25			.0	.0	.0	.0	1.5	.0	---	---	---	---
26			.0	.0	.0	.0	1.0	.5	---	---	---	---
27			.0	.0	.0	.0	1.0	.0	---	---	8.5	1.5
28			.0	.0	.0	.0	1.0	.0	---	---	10.5	1.0
29			.0	.0	.0	.0	.0	.0	---	---	5.0	1.0
30			.0	.0	.0	.0	1.0	.0	---	---	---	---
31			---	---	.0	.0	.0	.0	---	---	8.0	1.0
MONTH					.0	.0	1.5	.0				

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.5	4.0	---	---	22.5	4.5	24.0	6.5	25.5	7.5	25.0	6.5
2	8.0	1.0	---	---	24.0	2.5	25.5	5.5	23.5	10.5	24.5	5.5
3	13.0	.0	---	---	24.0	4.5	25.5	5.5	21.5	9.5	24.0	6.0
4	13.0	.5	---	---	24.0	3.5	24.5	5.5	22.0	8.5	20.5	8.0
5	11.5	.5	---	---	23.0	3.0	18.0	6.5	---	---	25.0	8.0
6	9.5	1.0	---	---	23.0	1.5	24.5	4.5	---	---	24.5	6.0
7	8.5	1.0	---	---	23.0	2.0	24.0	5.5	---	---	17.5	7.0
8	7.5	.5	---	---	23.5	3.0	24.5	8.5	---	---	21.0	7.5
9	9.5	.5	---	---	25.0	2.0	24.0	7.5	---	---	21.0	7.0
10	---	---	---	---	22.0	3.5	26.0	6.0	---	---	20.5	8.0
11	---	---	---	---	26.0	4.5	26.0	7.0	25.0	9.5	11.0	7.5
12	---	---	7.0	.0	21.0	6.0	26.5	7.0	24.0	9.5	15.5	4.0
13	---	---	9.0	.5	21.0	6.0	23.5	8.0	17.5	9.5	8.5	5.5
14	---	---	16.5	1.0	23.0	5.0	25.5	7.0	22.0	8.0	12.0	4.5
15	---	---	20.0	.0	20.0	5.5	25.0	7.5	24.5	8.0	20.5	4.5
16	---	---	22.0	1.5	25.0	5.5	25.0	6.0	22.0	9.0	20.0	5.0
17	---	---	22.5	1.0	23.5	6.5	23.5	8.5	25.0	8.5	18.0	6.5
18	---	---	23.5	3.5	20.5	6.5	26.5	7.0	27.0	9.5	21.0	5.0
19	---	---	23.0	4.0	25.5	5.0	26.5	7.0	23.5	8.5	18.5	6.5
20	---	---	26.5	3.0	23.5	5.0	26.5	7.5	23.5	9.0	18.5	5.5
21	---	---	29.0	1.0	24.0	6.5	25.0	8.0	24.5	10.0	21.5	6.0
22	---	---	23.5	2.5	23.0	7.0	25.0	9.0	22.0	9.5	21.0	6.0
23	---	---	26.0	4.5	22.0	6.5	27.5	10.0	27.5	8.5	21.5	6.5
24	---	---	23.0	3.0	26.5	6.5	23.0	9.5	26.5	8.5	20.0	4.5
25	---	---	26.0	2.5	24.5	5.5	---	---	20.0	9.0	14.5	7.5
26	---	---	28.5	3.5	23.0	5.5	---	---	23.5	7.0	20.0	8.0
27	---	---	25.5	5.0	27.5	6.5	---	---	23.5	7.5	13.0	4.0
28	---	---	24.5	5.0	26.5	7.0	---	---	21.5	7.5	16.0	3.5
29	---	---	23.5	3.0	24.0	6.0	24.0	11.0	24.0	8.0	9.5	3.5
30	---	---	---	---	24.0	8.0	25.5	8.5	24.0	8.0	16.0	5.0
31	---	---	25.5	2.0	---	---	26.5	8.0	23.5	7.5	---	---
MONTH					27.5	1.5	27.5	4.5			25.0	3.5

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, CO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.14	554	---	.40	---	.30	.20	---	.15
2	.16	---	.20	.40	---	.70	.18	---	.10
3	.19	---	.30	.35	---	.60	.12	---	.08
4	.34	---	1.5	.35	---	.40	.12	---	.40
5	.38	---	2.5	.30	---	.30	.13	---	.05
6	.20	---	.20	.30	---	.20	.12	---	.02
7	.21	---	.20	.32	---	.10	.12	16	.01
8	.45	---	4.5	.35	---	.10	.12	---	.01
9	.29	---	.80	.30	---	.70	.12	---	.01
10	.29	---	.80	.30	900	.73	.12	---	.01
11	.64	---	15	.30	---	.60	.12	---	.01
12	.33	---	1.3	.30	---	.50	.12	---	.01
13	.20	---	.30	.27	---	.15	.12	---	.01
14	.20	---	.30	.25	---	.10	.12	---	.01
15	.27	---	1.3	.25	---	.10	.12	---	.01
16	.20	1400	.75	.25	---	.15	.12	---	.01
17	.15	---	.50	.30	---	.30	.12	---	.01
18	.17	---	.40	.30	---	.20	.12	---	.01
19	.17	---	.40	.30	---	.40	.12	---	.01
20	.20	900	.49	.30	---	.40	.12	---	.01
21	.20	---	.50	.27	---	.15	.12	---	.01
22	.15	---	.50	.28	---	.15	.12	---	.01
23	.15	---	.40	.25	---	.10	.12	---	.01
24	.12	---	.10	.24	---	.10	.12	---	.01
25	.15	---	.30	.27	---	.10	.12	---	.01
26	.15	---	.30	.25	---	.20	.12	---	.01
27	.17	---	.05	.25	---	.30	.12	---	.01
28	.16	82	.04	.25	---	.20	.12	---	.01
29	.30	---	.40	.22	---	.10	.12	---	.01
30	.35	---	.60	.22	---	.10	.12	---	.01
31	.40	---	.40	---	---	---	.12	---	.01
TOTAL	7.48	---	35.33	8.69	---	8.53	3.87	---	1.05

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	.12		.01	.17	---	.05	.20	---	.20
2	.11		.01	.15	---	.03	.24	---	.10
3	.11		.01	.23	---	.05	.23	---	.10
4	.11		.01	.20	---	.02	.17	---	.05
5	.11		.01	.19	---	.02	.15	---	.05
6	.11		.01	.18	---	.01	.09	---	.05
7	.11		.01	.17	---	.01	.12	---	.05
8	.11		.01	.16	---	.01	.13	---	.05
9	.11		.01	.17	---	.01	.13	---	.05
10	.11		.01	.18	---	.01	.18	---	.10
11	.11		.01	.18	---	.01	.18	---	.20
12	.11		.01	.18	---	.01	.15	---	.20
13	.11		.01	.18	---	.01	.10	---	.10
14	.11		.01	.18	---	.01	.14	---	.10
15	.11		.01	.18	---	.01	.20	---	.20
16	.13		.01	.18	---	.01	.18	---	.20
17	.11		.01	.18	---	.01	.06	---	.15
18	.11		.01	.18	14	.01	.11	---	.15
19	.11		.01	.18	---	.01	.08	---	.10
20	.10		.01	.18	---	.01	.07	---	.10
21	.14		.02	.18	---	.02	.08	---	.10
22	.08		.01	.18	---	.03	.07	---	.10
23	.10		.01	.14	---	.05	.07	---	.10
24	.14		.02	.13	---	.05	.05	---	.05
25	.14		.02	.17	---	.10	.02	---	---
26	.14		.02	.16	---	.05	.07	5000	1.1
27	.07		.01	.23	---	.15	.07	---	.80
28	.07		.01	.19	---	.10	.04	---	.20
29	.15		.02	---	---	---	.04	---	.05
30	.17		.03	---	---	---	.02	---	---
31	.33		.10	---	---	---	.07	---	.05
TOTAL	3.75		0.47	4.98	---	0.87	3.51	---	4.85

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	.07		.05	.00	---	---	.39	---	1.5
2	.07		.15	.00	---	---	.35	---	1.0
3	.10		.20	.00	---	---	.38	---	1.5
4	.09		.05	.00	---	---	.41	---	1.5
5	.09		.25	.00	---	---	.45	---	1.5
6	.10		.20	.00	---	---	.49	---	1.5
7	.05		.25	.00	---	---	.53	---	1.5
8	.07		.15	.00	---	---	.52	---	1.5
9	.04		.10	.00	---	---	.52	---	1.5
10	.05		.10	.00	---	---	.56	---	1.5
11	.07		.20	.00	---	---	.55	---	1.5
12	.04		.05	.04	---	.02	.55	---	1.5
13	.03		.05	.02	---	.02	.50	---	1.5
14	.02		.02	.01	---	.01	.50	---	1.5
15	.03		.02	.01	---	.02	.58	---	2.5
16	.01		.01	.01	---	.02	.49	2610	3.8
17	.02		.01	.01	---	.02	.44	3040	3.5
18	.01		---	.01	---	.02	.48	3500	4.4
19	.02		.01	.04	---	.03	.43	3230	4.0
20	.02		.01	.05	---	.02	.39	---	3.0
21	.01		---	.02	---	.02	.38	---	2.5
22	.01		---	.02	---	.02	.34	---	2.0
23	.01		---	.05	---	.05	.46	---	2.0
24	.00		---	.05	348	.05	.45	1620	2.0
25	.00		---	.12	---	.15	.46	---	2.0
26	.01		---	.18	719	.35	.48	---	2.0
27	.01		---	.18	---	.35	.47	---	2.0
28	.01		---	.26	---	.50	.42	---	2.0
29	.01		---	.33	---	1.0	.45	---	2.0
30	.01		---	.36	---	1.0	.43	---	1.0
31	---			.35	---	1.0	---	---	---
TOTAL	1.08		1.88	2.12	---	4.67	13.85	---	61.2
		JULY			AUGUST			SEPTEMBER	
1	.43	---	.90	.50	904	1.2	.31	418	---
2	.38	---	.70	.50	---	6.0	.31	550	---
3	.43	---	.90	.58	6930	12	.36	968	---
4	.48	---	.90	.50	6380	---	.36	1140	---
5	.52	---	.90	.50	4620	---	.37	1260	1.3
6	.54	---	.80	.50	2530	---	.37	1230	---
7	.52	---	.80	.50	2310	---	.34	616	---
8	.55	---	.70	.64	7760	15	.34	220	---
9	.52	---	.80	.64	6580	11	.38	242	---
10	.54	---	1.2	.55	---	3.0	.39	352	---
11	.51	---	1.0	.55	---	4.0	.52	7060	12
12	.53	---	1.2	.47	---	3.0	.48	---	5.0
13	.59	---	1.3	.43	---	2.5	.49	---	5.0
14	.57	---	1.6	.39	---	2.0	.45	---	2.5
15	.49	1070	1.5	.35	---	1.5	.38	---	1.5
16	.45	994	1.3	.39	---	1.2	.31	440	.36
17	.52	1040	1.5	.43	---	1.0	.28	550	---
18	.52	551	.84	.39	---	.80	.28	1530	1.3
19	.50	874	1.3	.36	---	.50	.29	1680	1.4
20	.49	562	.86	.36	385	.37	.29	1540	---
21	.46	---	.90	.32	484	---	.29	880	---
22	.49	---	1.0	.36	836	.97	.27	440	---
23	.48	---	.90	.36	418	---	.27	330	---
24	.66	---	10	.33	726	---	.27	660	---
25	.47	---	1.5	.33	1060	---	.28	440	---
26	.52	---	2.0	.33	770	---	.32	1320	---
27	.49	---	3.0	.37	506	---	.52	6920	14
28	.53	---	3.0	.37	484	---	.53	2210	3.2
29	.54	2180	---	.37	308	---	.49	1850	2.8
30	.50	1340	---	.37	308	---	.45	2200	---
31	.50	1730	---	.34	330	---	---	---	---
TOTAL	15.72	---	43.30	13.38	---	66.04	10.99	---	50.36
YEAR	89.42		278.55						

09306237 DRY FORK NEAR RANGELY, CO

LOCATION.--Lat 39°55'20", long 108°31'55", in SE¼NE¼ sec.32, T.1 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050007, on left bank 1.7 mi (2.7 km) upstream from mouth and 18 mi (29 km) southeast of Rangely.

DRAINAGE AREA.--2.74 mi² (7.10 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1974 to September 1982 (discontinued).

REVISED RECORDS.--WDR CO-78-3: 1978(M).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,030 ft (2,141 m), from topographic map.

REMARKS.--Records excellent, except those for days of flow, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 202 ft³/s (5.72 m³/s) July 23, 1977, gage height, 3.16 ft (0.963 m), from slope-area measurement of peak flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27 ft³/s (0.765 m³/s) at 1700 Aug. 2, gage height, 2.83 ft (0.863 m); no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.75	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.05
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.15	.00	.00	.00	.00	.00	.00	.00	.00	.12	.76	.52
MEAN	.005	.000	.000	.000	.000	.000	.000	.000	.000	.004	.025	.017
MAX	.11	.00	.00	.00	.00	.00	.00	.00	.00	.11	.75	.22
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.3	.00	.00	.00	.00	.00	.00	.00	.00	.2	1.5	1.0

CAL YR 1981 TOTAL 1.91 MEAN .005 MAX .66 MIN .00 AC-FT 3.8
WTR YR 1982 TOTAL 1.55 MEAN .004 MAX .75 MIN .00 AC-FT 3.1

09306237 DRY FORK NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1974 to September 1982 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to September 1982 (discontinued).
WATER TEMPERATURE: April 1974 to September 1982 (discontinued).
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to September 1982 (discontinued).

INSTRUMENTATION.--Water-quality monitor since April 1974. Pumping sediment sampler since October 1974.

REMARKS.--Flow occurred only on days shown.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,030 micromhos Sept. 3, 1977; minimum, 243 micromhos May 16, 1979.
WATER TEMPERATURES: Maximum, 22.0°C July 23, 1977; minimum, 5.0°C Aug. 26, 1977.
SEDIMENT CONCENTRATIONS: Maximum daily, 67,600 mg/L Aug. 2, 1982; no flow many days during each year.
SEDIMENT LOADS: Maximum daily, 604 tons (547 t) Aug. 2, 1982; no flow many days during each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Not determined.
WATER TEMPERATURE: Maximum, 21.0°C July 24; minimum, 7.0°C Sept. 19.
SEDIMENT CONCENTRATIONS: Maximum daily, 67,600 mg/L Aug. 2; no flow many days during year.
SEDIMENT LOADS: Maximum daily, 604 tons (548 t) Aug. 2; no flow many days during year.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	---	
2										---	1020	
3										---	---	
4										---	---	
5										---	---	
6										---	---	
7										---	---	
8										---	---	
9										---	---	
10										---	---	
11										---	---	
12										---	---	
13										---	---	
14										---	---	
15										---	---	
16										---	---	
17										---	---	
18										---	---	
19										---	---	
20										---	---	
21										---	---	
22										---	---	
23										---	---	
24										580	---	
25										---	---	
26										---	---	
27										---	---	
28										---	---	
29										---	---	
30										---	---	
31										---	---	

09306237 DRY FORK NEAR RANSELY. CO--Continued

TEMPERATURE. WATER (DEG. C). WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1							---	---	---	---	---	---
2							---	---	15.0	13.0	---	---
3							---	---	---	---	---	---
4							---	---	---	---	---	---
5							---	---	---	---	---	---
6							---	---	---	---	---	---
7							---	---	---	---	---	---
8							---	---	---	---	---	---
9							---	---	---	---	---	---
10							---	---	---	---	---	---
11							---	---	---	---	12.0	10.0
12							---	---	---	---	14.5	12.5
13							---	---	---	---	---	---
14							---	---	---	---	---	---
15							---	---	---	---	---	---
16							---	---	---	---	---	---
17							---	---	---	---	---	---
18							---	---	---	---	17.5	9.5
19							---	---	---	---	8.5	7.0
20							---	---	---	---	---	---
21							---	---	---	---	---	---
22							---	---	---	---	---	---
23							---	---	---	---	---	---
24							21.0	12.5	---	---	---	---
25							---	---	---	---	---	---
26							20.0	19.0	---	---	---	---
27							---	---	18.0	15.0	8.5	8.0
28							---	---	---	---	---	---
29							---	---	---	---	---	---
30							---	---	---	---	---	---
31							---	---	---	---	---	---

09306237 DRY FORK NEAR RANGELY, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.00		---	.00			.00		
2	.00		---	.00			.00		
3	.00		---	.00			.00		
4	.11		10	.00			.00		
5	.00		---	.00			.00		
6	.00		---	.00			.00		
7	.00		---	.00			.00		
8	.00		---	.00			.00		
9	.00		---	.00			.00		
10	.00		---	.00			.00		
11	.04		1.0	.00			.00		
12	.00		---	.00			.00		
13	.00		---	.00			.00		
14	.00		---	.00			.00		
15	.00		---	.00			.00		
16	.00		---	.00			.00		
17	.00		---	.00			.00		
18	.00		---	.00			.00		
19	.00		---	.00			.00		
20	.00		---	.00			.00		
21	.00		---	.00			.00		
22	.00		---	.00			.00		
23	.00		---	.00			.00		
24	.00		---	.00			.00		
25	.00		---	.00			.00		
26	.00		---	.00			.00		
27	.00		---	.00			.00		
28	.00		---	.00			.00		
29	.00		---	.00			.00		
30	.00		---	.00			.00		
31	.00		---	---			.00		

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	.00		---	.00	---	---	.00	---	---
2	.00		---	.75	67600	604	.00	---	---
3	.00		---	.00	---	---	.00	---	---
4	.00		---	.00	---	---	.00	---	---
5	.00		---	.00	---	---	.00	---	---
6	.00		---	.00	---	---	.00	---	---
7	.00		---	.00	---	---	.00	---	---
8	.00		---	.00	---	---	.00	---	---
9	.00		---	.00	---	---	.00	---	---
10	.00		---	.00	---	---	.00	---	---
11	.00		---	.00	---	---	.22	36000	57
12	.00		---	.00	---	---	.15	4020	20
13	.00		---	.00	---	---	.00	---	---
14	.00		---	.00	---	---	.00	---	---
15	.00		---	.00	---	---	.00	---	---
16	.00		---	.00	---	---	.00	---	---
17	.00		---	.00	---	---	.00	---	---
18	.00		---	.00	---	---	.07	---	5.0
19	.00		---	.00	---	---	.03	---	1.0
20	.00		---	.00	---	---	.00	---	---
21	.00		---	.00	---	---	.00	---	---
22	.00		---	.00	---	---	.00	---	---
23	.00		---	.00	---	---	.00	---	---
24	.11		10	.00	---	---	.00	---	---
25	.00		---	.00	---	---	.00	---	---
26	.01		.10	.00	---	---	.00	---	---
27	.00		---	.01	---	.10	.05	---	1.5
28	.00		---	.00	---	---	.00	---	---
29	.00		---	.00	---	---	.00	---	---
30	.00		---	.00	---	---	.00	---	---
31	.00		---	.00	---	---	---	---	---

09306240 BOX ELDER GULCH NEAR RANGELY, CO

LOCATION.--Lat 39°53'18", long 108°31'40", in NE¼SW¼ sec.8, T.2 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 30 ft (9 m) upstream from unnamed tributary, 4.1 mi (6.6 km) upstream from mouth, and 20 mi (32 km) southeast of Rangely.

DRAINAGE AREA.--9.21 mi² (23.85 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,955 ft (2,120 m), from topographic map.

REMARKS.--Records excellent except for days of flow, which are poor. No diversion or regulation above station.

AVERAGE DISCHARGE.--8 years, 0.22 ft³/s (0.006 m³/s), 159 acre-ft/yr (0.20 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 332 ft³/s (9.40 m³/s) Sept. 7, 1981, gage height, 4.37 ft (1.332 m), result of slope-area measurement of peak flow; no flow most days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.4 ft³/s (0.125 m³/s) at 0030, Oct. 5, gage height, 1.74 ft (0.530 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.01	.00	.45	.57	.00	.00	.00
2	.00	.00	.00	.00	.00	.01	.00	.54	.48	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.63	.40	.00	.00	.00
4	.15	.00	.00	.00	.00	.00	.00	.78	.36	.00	.00	.00
5	.24	.00	.00	.00	.00	.00	.00	.82	.40	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.01	.79	.40	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.77	.36	.00	.00	.00
8	.01	.00	.00	.00	.00	.00	.02	.70	.30	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.02	.74	.22	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.03	.68	.22	.00	.00	.00
11	.16	.00	.00	.00	.00	.00	.04	.77	.10	.00	.00	.00
12	.07	.00	.00	.00	.00	.00	.05	.94	.09	.00	.00	.00
13	.01	.00	.00	.00	.00	.00	.12	.85	.06	.00	.00	.01
14	.00	.00	.00	.00	.00	.00	.16	.80	.10	.00	.00	.00
15	.10	.00	.00	.00	.00	.00	.15	.77	.06	.00	.00	.00
16	.03	.00	.00	.00	.00	.00	.12	.58	.02	.00	.00	.00
17	.00	.00	.00	.00	.03	.00	.14	.41	.02	.00	.00	.00
18	.00	.00	.00	.00	.07	.00	.25	.15	.02	.00	.00	.00
19	.00	.00	.00	.00	.40	.00	.27	.44	.02	.00	.00	.01
20	.00	.00	.00	.00	.30	.00	.23	.66	.02	.00	.00	.00
21	.00	.00	.00	.00	.27	.00	.33	.58	.01	.00	.00	.00
22	.00	.00	.00	.00	.24	.00	.39	.55	.01	.00	.00	.00
23	.00	.00	.00	.00	.11	.00	.44	.50	.01	.00	.00	.00
24	.00	.00	.00	.00	.04	.00	.40	.50	.01	.00	.00	.00
25	.00	.00	.00	.00	.02	.00	.36	.46	.01	.00	.00	.00
26	.00	.00	.00	.00	.04	.00	.48	.40	.01	.00	.00	.00
27	.00	.00	.00	.00	.02	.00	.33	.53	.00	.00	.00	.01
28	.00	.00	.00	.00	.02	.00	.30	.53	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.40	.53	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.46	.62	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.57	---	.00	.00	---
TOTAL	.77	.00	.00	.00	1.56	.02	5.50	19.04	4.28	.00	.00	.03
MEAN	.025	.000	.000	.000	.056	.001	.18	.61	.14	.000	.000	.001
MAX	.24	.00	.00	.00	.40	.01	.48	.94	.57	.00	.00	.01
MIN	.00	.00	.00	.00	.00	.00	.00	.15	.00	.00	.00	.00
AC-FT	1.5	.00	.00	.00	3.1	.04	11	38	8.5	.00	.00	.06

CAL YR 1981 TOTAL 13.68 MEAN .037 MAX 11 MIN .00 AC-FT 27
WTR YR 1982 TOTAL 31.20 MEAN .085 MAX .94 MIN .00 AC-FT 62

09306240 BOX ELDER GULCH NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to current year.
WATER TEMPERATURE: April 1974 to current year.
SUSPENDED-SEDIMENT DISCHARGE: March 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1974. Pumping sediment sampler since March 1975.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 980 micromhos June 21, 1979; minimum, 202 micromhos Mar. 22, 1978.
WATER TEMPERATURES: Maximum, 32.0°C June 20, 1978, June 29, 1979; minimum, 0.0°C Mar. 21-23, 1978, Apr. 20, May 7, 1979, Feb. 17, 18, Apr. 19, 1980.
SEDIMENT CONCENTRATIONS: Maximum daily, 33,100 mg/L Sept. 7, 1981; no flow many days each year.
SEDIMENT LOADS: Maximum daily, 6,750 tons (6,120 t) Sept. 7, 1981; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, not determined; minimum, not determined.
WATER TEMPERATURES: Maximum, not determined; minimum, not determined.
SEDIMENT CONCENTRATIONS: Maximum daily, 3,340 mg/L Apr. 21; no flow many days during year.
SEDIMENT LOADS: Maximum daily, 10 tons (9.1 t) Apr. 21; no flow many days during year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (FTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT											
16...	1030	.04	695	719	8.3	--	--	--	--	280	59
APR											
15...	1310	.30	835	780	8.2	11.0	300	8.8	69	360	67
20...	1345	1.2	--	--	--	3.0	--	--	--	--	--
20...	1515	.57	--	--	--	3.0	--	--	--	--	--
29...	1350	.62	--	--	--	10.0	--	--	--	--	--
MAY											
04...	1330	.66	--	--	--	10.0	--	--	--	--	--
19...	1635	.48	--	--	--	15.0	--	--	--	--	--
26...	1620	.35	--	--	--	27.5	--	--	--	--	--
JUN											
24...	1130	.02	--	--	--	24.5	--	--	--	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT											
16...	33	50	1.4	2.1	240	--	140	5.5	.2	--	15
APR											
15...	47	60	1.5	1.5	290	< .5	190	5.7	.3	< .01	23
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
JUN											
24...	--	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
OCT											
16...	--	449	.61	.05	--	--	--	--	--	70	10
APR											
15...	567	569	.77	.46	378	.080	.67	.75	< .010	60	10
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
JUN											
24...	--	--	--	--	--	--	--	--	--	--	--

09306240 BOX ELDER GULCH NEAR RANGELY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	ANTI-MONY, TOTAL (UG/L AS SB)	ARSENIC DIS-SOLVED (UG/L AS AS)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)
APR								
15...	< 1	6	< .1	5	28	< 15	41	< 5.7

DATE	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)
APR								
15...	22	< 5.5	22	.11	4.8	< .01	1	< 0

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
APR					MAY				
15...	1310	.30	511	.41	26...	1620	.35	149	.14
20...	1345	1.2	12000	37	JUN				
20...	1515	.57	4025	6.2	24...	1130	.02	14	.00
29...	1350	.62	1355	2.3					
MAY									
04...	1330	.66	843	1.5					
19...	1635	.48	243	.31					

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---						---	787	---			---
2	---						---	772	---			---
3	---						---	---	---			---
4	---						---	805	---			---
5	---						---	833	---			---
6	---						---	790	---			---
7	---						---	821	---			---
8	---						---	788	---			---
9	---						---	749	---			---
10	---						---	---	---			---
11	---						---	---	---			---
12	780						---	---	---			---
13	---						---	---	---			630
14	---						---	---	---			---
15	---						---	---	---			---
16	---						---	---	---			---
17	---						---	---	---			---
18	---						---	---	---			---
19	---						---	---	---			560
20	---						758	771	---			---
21	---						748	698	---			---
22	---						---	---	---			---
23	---						---	---	---			---
24	---						---	---	814			---
25	---						---	---	807			---
26	---						---	782	843			---
27	---						---	799	---			484
28	---						---	794	---			---
29	---						812	780	---			---
30	---						788	---	---			---
31	---						---	---	---			---
							777	784	821			558

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

09306240 BOX ELDER GULCH NEAR RANGELY, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---										
2	---	---										
3	---	---										
4	6.5	3.5										
5	5.5	4.5										
6	---	---										
7	---	---										
8	15.0	7.5										
9	---	---										
10	---	---										
11	4.5	2.0										
12	6.5	1.0										
13	5.0	1.0										
14	---	---										
15	5.0	4.0										
16	4.5	.5										
17	---	---										
18	---	---										
19	---	---										
20	---	---										
21	---	---										
22	---	---										
23	---	---										
24	---	---										
25	---	---										
26	---	---										
27	---	---										
28	---	---										
29	---	---										
30	---	---										
31	---	---										

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	19.5	3.0	19.5	5.0					---	---
2	---	---	20.5	3.5	23.5	2.0					---	---
3	---	---	21.0	5.0	25.5	5.0					---	---
4	---	---	12.0	4.0	24.5	3.5					---	---
5	---	---	15.5	.0	23.0	3.5					---	---
6	---	---	17.0	.0	25.5	1.0					---	---
7	---	---	14.5	.0	24.0	1.0					---	---
8	---	---	17.5	4.5	26.5	2.5					---	---
9	---	---	14.0	3.0	27.5	1.0					---	---
10	---	---	16.0	1.0	24.0	2.5					---	---
11	---	---	15.5	2.0	29.5	4.5					---	---
12	---	---	5.5	2.0	22.5	6.5					---	---
13	---	---	10.0	3.5	24.5	6.0					8.5	5.5
14	---	---	14.5	3.5	25.5	5.0					---	---
15	---	---	13.5	1.5	26.0	5.0					---	---
16	---	---	14.5	3.0	27.5	5.0					---	---
17	---	---	18.5	2.5	28.0	8.0					---	---
18	---	---	19.0	4.0	24.5	9.5					---	---
19	---	---	---	---	28.5	4.5					18.0	16.5
20	4.5	.0	20.5	4.0	28.0	4.0					---	---
21	13.5	.5	25.0	2.0	30.0	6.5					---	---
22	---	---	21.5	3.5	24.0	8.0					---	---
23	---	---	23.5	5.5	22.0	7.0					---	---
24	---	---	18.5	4.0	22.0	7.0					---	---
25	---	---	24.5	3.5	26.5	7.5					---	---
26	---	---	26.5	4.5	25.0	5.0					---	---
27	---	---	25.0	6.0	---	---					13.5	8.5
28	---	---	24.5	6.0	---	---					---	---
29	15.5	1.5	23.0	3.0	---	---					---	---
30	20.5	.0	16.0	5.5	---	---					---	---
31	---	---	26.0	2.5	---	---					---	---

09306240 BOX ELDER GULCH NEAR RANGELY, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.00	---	---	.00			.00		
2	.00	---	---	.00			.00		
3	.00	---	---	.00			.00		
4	.15	925	1.3	.00			.00		
5	.24	---	6.0	.00			.00		
6	.00	---	---	.00			.00		
7	.00	---	---	.00			.00		
8	.01	---	.30	.00			.00		
9	.00	---	---	.00			.00		
10	.00	---	---	.00			.00		
11	.16	---	2.0	.00			.00		
12	.07	---	1.0	.00			.00		
13	.01	---	.10	.00			.00		
14	.00	---	---	.00			.00		
15	.10	---	1.5	.00			.00		
16	.03	---	.50	.00			.00		
17	.00	---	---	.00			.00		
18	.00	---	---	.00			.00		
19	.00	---	---	.00			.00		
20	.00	---	---	.00			.00		
21	.00	---	---	.00			.00		
22	.00	---	---	.00			.00		
23	.00	---	---	.00			.00		
24	.00	---	---	.00			.00		
25	.00	---	---	.00			.00		
26	.00	---	---	.00			.00		
27	.00	---	---	.00			.00		
28	.00	---	---	.00			.00		
29	.00	---	---	.00			.00		
30	.00	---	---	.00			.00		
31	.00	---	---	---			.00		

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	.00			.00		---	.01		.01
2	.00			.00		---	.01		.01
3	.00			.00		---	.00		---
4	.00			.00		---	.00		---
5	.00			.00		---	.00		---
6	.00			.00		---	.00		---
7	.00			.00		---	.00		---
8	.00			.00		---	.00		---
9	.00			.00		---	.00		---
10	.00			.00		---	.00		---
11	.00			.00		---	.00		---
12	.00			.00		---	.00		---
13	.00			.00		---	.00		---
14	.00			.00		---	.00		---
15	.00			.00		---	.00		---
16	.00			.00		---	.00		---
17	.00			.03		.05	.00		---
18	.00			.07		.20	.00		---
19	.00			.40		5.0	.00		---
20	.00			.30		3.0	.00		---
21	.00			.27		3.0	.00		---
22	.00			.24		2.0	.00		---
23	.00			.11		1.0	.00		---
24	.00			.04		.50	.00		---
25	.00			.02		.10	.00		---
26	.00			.04		.10	.00		---
27	.00			.02		.05	.00		---
28	.00			.02		.05	.00		---
29	.00			---			.00		---
30	.00			---			.00		---
31	.00			---			.00		---

09306240 BOX ELDER GULCH NEAR RANGELY, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	.00	---	---	.45	---	1.5	.57	---	.30
2	.00	---	---	.54	---	1.5	.48	113	.15
3	.00	---	---	.63	---	1.5	.40	154	.17
4	.00	---	---	.78	843	1.8	.36	73	.07
5	.00	---	---	.82	---	2.0	.40	36	.04
6	.01	---	.00	.79	---	1.8	.40	30	.03
7	.00	---	---	.77	---	1.8	.36	34	.03
8	.02	---	.01	.70	---	1.8	.30	33	.03
9	.02	---	.01	.74	---	2.0	.22	100	.06
10	.03	---	.01	.68	---	1.8	.22	115	.07
11	.04	---	.03	.77	---	2.0	.10	---	.03
12	.05	---	.05	.94	---	2.0	.09	---	.03
13	.12	---	.15	.85	---	1.0	.06	---	.01
14	.16	---	.20	.80	---	.70	.10	---	.03
15	.15	511	.21	.77	---	.50	.06	---	.01
16	.12	---	.30	.58	---	.25	.02	---	.00
17	.14	---	.50	.41	---	.20	.02	---	.00
18	.25	---	2.5	.15	---	.15	.02	---	.00
19	.27	---	2.5	.44	243	.29	.02	---	.00
20	.23	1320	2.6	.66	---	.25	.02	---	.00
21	.33	3340	10	.58	125	.19	.01	---	.00
22	.39	---	8.0	.55	92	.14	.01	---	.00
23	.44	---	4.0	.50	70	.09	.01	---	.00
24	.40	---	2.0	.50	---	.10	.01	14	.00
25	.36	---	1.5	.46	50	.06	.01	---	.00
26	.48	---	2.0	.40	58	.06	.01	---	.00
27	.33	---	1.0	.53	---	.10	.00	---	---
28	.30	---	1.0	.53	117	.17	.00	---	---
29	.40	1360	1.5	.53	75	.11	.00	---	---
30	.46	---	1.5	.62	622	1.2	.00	---	---
31	---	---	---	.57	---	.70	---	---	---
TOTAL	5.50	---	41.57	19.04	---	27.76	4.28	---	1.06

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	.00			.00			.00		---
2	.00			.00			.00		---
3	.00			.00			.00		---
4	.00			.00			.00		---
5	.00			.00			.00		---
6	.00			.00			.00		---
7	.00			.00			.00		---
8	.00			.00			.00		---
9	.00			.00			.00		---
10	.00			.00			.00		---
11	.00			.00			.00		---
12	.00			.00			.00		---
13	.00			.00			.01		.05
14	.00			.00			.00		---
15	.00			.00			.00		---
16	.00			.00			.00		---
17	.00			.00			.00		---
18	.00			.00			.00		---
19	.00			.00			.01		.05
20	.00			.00			.00		---
21	.00			.00			.00		---
22	.00			.00			.00		---
23	.00			.00			.00		---
24	.00			.00			.00		---
25	.00			.00			.00		---
26	.00			.00			.00		---
27	.00			.00			.01		.05
28	.00			.00			.00		---
29	.00			.00			.00		---
30	.00			.00			.00		---
31	.00			.00			---		

09306241 BOX ELDER GULCH TRIBUTARY NEAR RANGELY, CO

LOCATION.--Lat 39°54'50", long 108°29'06", in SE¼SE¼ sec.34, T.1 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 880 ft (268 m) above mouth, 3.5 mi (5.6 km) west of 84 Ranch, and 20.5 mi (33.0 km) southwest of Rangely.

DRAINAGE AREA.--2.39 mi² (6.19 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to September 1982 (discontinued).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,655 ft (2,028 m), from topographic map.

REMARKS.--Records excellent except for periods of flow, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 139 ft³/s (3.94 m³/s) Sept. 7, 1981, gage height, 3.07 ft (0.936 m) from rating curve extended above 2.5 ft³/s (0.071 m³/s), on basis of slope-area measurements at gage heights, 1.72 ft (0.524 m) and 3.07 ft (0.936 m); no flow most days each year.

EXTREMES FOR CURRENT YEAR.--Maximum observed discharge, 0.94 ft³/s (0.027 m³/s) at 1530 Feb. 22, gage height, 1.48 ft (0.451 m); no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
12	.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
13	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
15	.15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.70	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.90	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.90	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.50	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.79	.00	.00	.00	3.33	.00	.00	.00	.00	.00	.00	.06
MEAN	.025	.000	.000	.000	.12	.000	.000	.000	.000	.000	.000	.002
MAX	.19	.00	.00	.00	.90	.00	.00	.00	.00	.00	.00	.02
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	1.6	.00	.00	.00	6.6	.00	.00	.00	.00	.00	.00	.1

CAL YR 1981 TOTAL 7.65 MEAN .021 MAX 3.1 MIN .00 AC-FT 15
WTR YR 1982 TOTAL 4.18 MEAN .011 MAX .90 MIN .00 AC-FT 8.3

NOTE.--NO GAGE-HEIGHT RECORD FEB. 19-28.

09306241 BOX ELDER GULCH TRIBUTARY NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to September 1982 (Discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to current year.
WATER TEMPERATURE: April 1974 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1974. Pumping sediment sampler since October 1974.

REMARKS.--No monitor data available.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,500 micromhos, June 23, 1981; minimum, 120 micromhos Feb. 18, 1981.
WATER TEMPERATURES: Maximum not determined; minimum, 0.0°C on some days during winter periods having flow.
SEDIMENT CONCENTRATIONS, Maximum daily, 10,800 mg/L Feb. 28, 1976; no flow many days each year.
SEDIMENT LOADS: Maximum daily, 44 tons (40 t) Feb. 28, 1976; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Not determined.
WATER TEMPERATURES: Not determined.
SEDIMENT CONCENTRATIONS: Maximum daily, 2,540 mg/L Feb. 22; no flow most days.
SEDIMENT LOADS: Maximum daily, 6.2 tons (5.60 t) Feb. 22, no flow most days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)
FEB										
22...	1530	.90	85	.0	40	13	1.9	3.6	.3	3.3

DATE	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	BORON, DISSOLVED (UG/L AS B)
FEB									
22...	47	7.0	1.4	.0	3.0	61	.08	.15	10

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
FEB				
22...	1530	.90	2550	6.2
FEB				
23...	1520	.51	1740	2.4

09306241 BOX ELDER GULCH TRIBUTARY NEAR RANGELY, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.00		---	.00			.00		
2	.00		---	.00			.00		
3	.00		---	.00			.00		
4	.11		.50	.00			.00		
5	.06		.30	.00			.00		
6	.00		---	.00			.00		
7	.00		---	.00			.00		
8	.10		.45	.00			.00		
9	.00		---	.00			.00		
10	.00		---	.00			.00		
11	.10		.45	.00			.00		
12	.19		.50	.00			.00		
13	.05		.15	.00			.00		
14	.00		---	.00			.00		
15	.15		.50	.00			.00		
16	.03		.10	.00			.00		
17	.00		---	.00			.00		
18	.00		---	.00			.00		
19	.00		---	.00			.00		
20	.00		---	.00			.00		
21	.00		---	.00			.00		
22	.00		---	.00			.00		
23	.00		---	.00			.00		
24	.00		---	.00			.00		
25	.00		---	.00			.00		
26	.00		---	.00			.00		
27	.00		---	.00			.00		
28	.00		---	.00			.00		
29	.00		---	.00			.00		
30	.00		---	.00			.00		
31	.00		---	---			.00		

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	.00			.00	---	---	.00		
2	.00			.00	---	---	.00		
3	.00			.00	---	---	.00		
4	.00			.00	---	---	.00		
5	.00			.00	---	---	.00		
6	.00			.00	---	---	.00		
7	.00			.00	---	---	.00		
8	.00			.00	---	---	.00		
9	.00			.00	---	---	.00		
10	.00			.00	---	---	.00		
11	.00			.00	---	---	.00		
12	.00			.00	---	---	.00		
13	.00			.00	---	---	.00		
14	.00			.00	---	---	.00		
15	.00			.00	---	---	.00		
16	.00			.00	---	---	.00		
17	.00			.00	---	---	.00		
18	.00			.00	---	---	.00		
19	.00			.20	---	.50	.00		
20	.00			.70	---	2.5	.00		
21	.00			.90	---	4.5	.00		
22	.00			.90	2540	6.2	.00		
23	.00			.50	1740	2.3	.00		
24	.00			.05	---	.15	.00		
25	.00			.03	---	.10	.00		
26	.00			.02	---	.05	.00		
27	.00			.02	---	.05	.00		
28	.00			.01	---	.05	.00		
29	.00			---	---	---	.00		
30	.00			---	---	---	.00		
31	.00			---	---	---	.00		

09306241 BOX ELDER GULCH TRIBUTARY NEAR RANGELY, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	.00			.00			.00		---
2	.00			.00			.00		---
3	.00			.00			.00		---
4	.00			.00			.00		---
5	.00			.00			.00		---
6	.00			.00			.00		---
7	.00			.00			.00		---
8	.00			.00			.00		---
9	.00			.00			.00		---
10	.00			.00			.00		---
11	.00			.00			.02		.10
12	.00			.00			.02		.10
13	.00			.00			.02		.10
14	.00			.00			.00		---
15	.00			.00			.00		---
16	.00			.00			.00		---
17	.00			.00			.00		---
18	.00			.00			.00		---
19	.00			.00			.00		---
20	.00			.00			.00		---
21	.00			.00			.00		---
22	.00			.00			.00		---
23	.00			.00			.00		---
24	.00			.00			.00		---
25	.00			.00			.00		---
26	.00			.00			.00		---
27	.00			.00			.00		---
28	.00			.00			.00		---
29	.00			.00			.00		---
30	.00			.00			.00		---
31	.00			.00			---		

09306242 CORRAL GULCH NEAR RANGELY, CO

LOCATION.--Lat 39°55'13", long 108°28'20", in SE¼NW¼ sec.35, T.1 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 5 ft (2 m) downstream from Boxelder Creek, 3.5 mi (5.6 km) upstream from confluence with Stake Springs Draw, and 21 mi (34 km) southeast of Rangely.

DRAINAGE AREA.--31.6 mi² (81.8 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder. Concrete control since July 20, 1974. Altitude of gage is 6,570 ft (2,003 m), from topographic map.

REMARKS.--Records good. No diversion above station.

AVERAGE DISCHARGE.--8 years, 1.35 ft³/s (0.038 m³/s), 978 acre-ft/yr (1.21 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 349 ft³/s (9.88 m³/s) Sept. 7, 1981, gage height, 4.08 ft (1.244 m), from rating curve extended above 15.5 ft³/s (0.44 m³/s), on basis of slope-area measurements at gage heights 3.89 ft (1.186 m), and 4.08 ft (1.244 m); minimum daily, 0.06 ft³/s (0.002 m³/s) Apr. 10-14, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31 ft³/s (0.878 m³/s) at 1845 Aug. 2, gage height, 2.92 ft (0.890 m); minimum daily, 0.37 ft³/s (0.010 m³/s) Jan. 10-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.94	.70	.44	.62	.79	.70	.75	.92	.99	.76	.63
2	1.0	.94	.70	.44	.62	.79	.66	.70	.89	1.0	1.6	.59
3	1.1	.94	.70	.43	.63	.80	.65	.75	.86	.93	.79	.55
4	1.2	.94	.70	.43	.63	.80	.65	1.0	.86	.92	.82	.55
5	2.1	.94	.70	.43	.63	.76	.61	1.1	.85	.92	.75	.56
6	1.1	.99	.70	.42	.68	.77	.64	.87	.88	.96	.73	.57
7	1.1	.89	.70	.42	.64	.82	.64	1.1	.80	.98	.66	.58
8	1.3	.79	.70	.38	.69	.87	.63	1.0	.71	.99	.76	.54
9	1.1	.79	.65	.38	.65	.74	.63	1.1	.69	1.0	.76	.50
10	1.0	.84	.65	.37	.70	.70	.63	1.2	.67	1.0	.67	.50
11	2.4	.79	.64	.37	.70	.70	.62	1.2	.55	1.0	.69	1.2
12	1.4	.79	.60	.37	.70	.66	.66	1.5	.48	1.0	.63	1.5
13	1.2	.79	.59	.39	.75	.65	.62	1.3	.44	1.0	.72	.75
14	1.2	.79	.59	.39	.76	.61	.57	1.1	.40	1.0	.68	.70
15	1.6	.79	.55	.39	.76	.60	.61	1.2	.90	1.0	.69	.62
16	1.2	.79	.58	.40	.82	.56	.60	1.1	.89	.97	.71	.58
17	1.0	.79	.54	.40	.82	.56	.60	1.0	.93	.99	.68	.50
18	1.0	.84	.53	.37	.88	.55	.60	.96	.97	.98	.67	.54
19	1.0	.84	.53	.41	.93	.55	.59	.89	1.0	.96	.69	.54
20	1.0	.79	.53	.41	1.5	.55	.59	.78	1.0	.82	.68	.54
21	1.0	.79	.52	.42	2.0	.54	.63	.76	.99	.75	.67	.58
22	1.0	.79	.52	.46	2.3	.54	.75	.77	1.1	.81	.70	.54
23	1.0	.79	.51	.46	1.1	.57	.79	.77	.98	.80	.69	.54
24	.99	.79	.51	.51	.81	.57	.78	.87	.88	1.0	.67	.58
25	.94	.79	.51	.51	.82	.57	.73	1.0	.95	.88	.68	.62
26	.94	.79	.50	.55	.82	.60	.77	.92	1.0	.87	.66	.61
27	.89	.75	.46	.56	.83	.64	.77	.84	1.0	.82	.67	.88
28	.89	.75	.46	.60	.78	.64	.77	.82	.97	.81	.70	.73
29	.94	.75	.45	.60	---	.67	.72	.75	.95	.89	.70	.79
30	.94	.70	.45	.61	---	.67	.76	.92	1.0	.86	.66	.69
31	.94	---	.45	.61	---	.71	---	.96	---	.79	.85	---
TOTAL	35.47	24.69	17.92	13.93	24.57	20.55	19.97	29.98	25.51	28.69	22.79	19.60
MEAN	1.14	.82	.58	.45	.88	.66	.67	.97	.85	.93	.74	.65
MAX	2.4	.99	.70	.61	2.3	.87	.79	1.5	1.1	1.0	1.6	1.5
MIN	.89	.70	.45	.37	.62	.54	.57	.70	.40	.75	.63	.50
AC-FT	70	49	36	28	49	41	40	59	51	57	45	39

CAL YR 1981 TOTAL 334.09 MEAN .92 MAX 6.4 MIN .45 AC-FT 663
WTR YR 1982 TOTAL 283.67 MEAN .78 MAX 2.4 MIN .37 AC-FT 563

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1975 to current year.
WATER TEMPERATURE: January 1975 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1974. Pumping sediment sampler since October 1974.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 3,000 micromhos July 17, 1976; minimum, 271 micromhos Feb. 18, 1980.
WATER TEMPERATURES: Maximum, 29.0°C Aug. 5, 1979; minimum, 0.0°C on several days during winter months some years.
SEDIMENT CONCENTRATIONS: Maximum daily, 88,000 mg/L estimated Sept. 11, 1977; minimum daily, 2 mg/L May 24, 1981.
SEDIMENT LOADS: Maximum daily, 2,600 tons (2,360 t) estimated Sept. 7, 1981; minimum daily, 0.00 ton (0.00 t) on many days during 1981.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,640 micromhos Jan. 12; minimum, 300 micromhos Oct. 11.
WATER TEMPERATURES: Maximum, 20.0°C May 26; minimum, 1.0°C Feb. 22.
SEDIMENT CONCENTRATIONS: Maximum daily, 35,801 mg/L Aug. 2; minimum daily, 3 mg/L Oct. 21.
SEDIMENT LOADS: Maximum daily, 1,370 tons (1,210 t) Aug. 7; minimum daily, 0.01 ton (.009 t) Oct. 21.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)
OCT 20...	1125	1.1	1430	1340	7.7	12.5	1.6	5.8	25	.4
DEC 02...	1145	.64	1450	1450	7.7	10.0	--	6.3	--	--
JAN 20...	1300	.40	1510	1510	7.8	9.0	--	6.5	--	--
FEB 18...	1130	.79	1400	1290	7.9	10.0	--	5.6	--	--
MAR 24...	1240	.58	1400	1430	7.8	13.0	--	6.6	--	--
APR 14...	1045	.62	1450	1400	7.7	13.5	--	6.0	--	--
MAY 24...	1215	.94	1250	1240	8.0	17.5	210	6.0	22	--
JUN 09...	1145	.89	1300	1330	7.9	16.0	--	5.8	--	--
JUL 29...	1225	.89	1400	1430	7.9	15.0	--	6.1	--	--
SEP 16...	1100	.54	1400	1440	7.9	11.5	--	6.8	--	--

DATE	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)
OCT 20...	K40	K45	480	80	68	170	3.8	1.4	450
DEC 02...	--	--	500	84	70	170	3.8	1.4	460
JAN 20...	--	--	500	85	70	170	3.8	1.4	480
FEB 18...	--	--	480	80	68	170	3.8	1.7	470
MAR 24...	--	--	450	75	64	160	3.7	1.4	380
APR 14...	--	--	470	80	66	160	3.6	1.6	440
MAY 24...	--	--	440	74	61	120	2.8	1.6	336
JUN 09...	--	--	450	76	64	140	3.3	1.4	407
JUL 29...	--	--	430	60	67	160	3.9	1.7	295
SEP 16...	--	--	490	81	69	160	3.6	1.5	342

K BASED ON NON-IDEAL COLONY COUNT.

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT 20...	.3	400	11	.6	.10	25	1040	1030	1.4
DEC 02...	--	380	10	.6	--	24	--	1020	1.4
JAN 20...	--	380	11	.7	--	24	--	1030	1.4
FEB 18...	--	380	9.9	.6	--	24	--	1020	1.4
MAR 24...	--	390	10	.6	--	23	--	953	1.3
APR 14...	--	360	9.9	.7	--	23	--	966	1.3
MAY 24...	1.2	290	8.8	.5	63	24	829	845	1.2
JUN 09...	--	320	9.7	.7	--	23	--	880	1.2
JUL 29...	--	380	9.8	.5	--	24	--	881	1.2
SEP 16...	--	370	10	.5	--	24	--	922	1.3

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	ANTI-MONY, TOTAL (UG/L AS SB)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
OCT 20...	3.1	1	<.060	0	4	150	.0	0	4.6
DEC 02...	1.8	--	--	--	--	150	--	--	3.8
JAN 20...	1.1	--	--	--	--	140	--	--	4.0
FEB 18...	2.2	--	--	--	--	140	--	--	4.9
MAR 24...	1.5	--	--	--	--	140	--	--	4.3
APR 14...	1.6	--	--	--	--	140	--	--	5.8
MAY 24...	2.1	248	<.060	1	5	120	<.1	2	4.9
JUN 09...	2.1	--	--	--	--	120	--	--	4.5
JUL 29...	2.1	--	--	--	--	180	--	--	5.0
SEP 16...	1.3	--	--	--	--	220	--	--	4.2

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
OCT									
20...	--	<25	<.4	<12	.4	<12	.4	.07	2.9
MAY									
24...	16	<20	23	<10	19	<9.9	18	.10	4.2

DATE	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)	PCB, TOTAL (UG/L)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)
OCT											
20...	<.01	0	0	.00	.00	.00	.00	.00	.00	.00	.00
MAY											
24...	<.01	1	0	--	--	--	--	--	--	--	--

DATE	DI-ELDRIN TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)
OCT										
20...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY										
24...	--	--	--	--	--	--	--	--	--	--

DATE	METHYL TRI-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT										
20...	.00	.00	.00	.00	0	.00	.00	.00	.00	.00
MAY										
24...	--	--	--	--	--	--	--	--	--	--

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
OCT				
01...	1322	1.1	28	.08
20...	1125	1.1	3	.01
28...	1432	.99	86	.23
NOV				
10...	1202	.94	63	.16
DEC				
02...	1145	.64	13	.02
07...	1315	.75	67	.14
JAN				
14...	1130	.39	48	.05
20...	1325	.39	31	.03
FEB				
18...	1003	.79	44	.09
18...	1130	.79	33	.07
22...	1605	6.8	4920	90
23...	1527	2.3	2035	13
MAR				
11...	1342	.70	62	.12
MAR				
24...	1240	.58	23	.04
APR				
14...	1050	.62	13	.02
MAY				
03...	1632	.70	148	.28
19...	1047	.99	1190	3.2
24...	1215	.94	670	1.7
25...	1601	.94	435	1.1
JUN				
09...	1146	.69	221	.41
23...	1453	.95	15	.04
JUL				
29...	1225	.89	166	.40
AUG				
30...	1348	.70	35	.07
SEP				
16...	1100	.54	37	.05

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1480	1450	1400	1540	1440	1460	1390	1380	1220	1370	1350	1450
2	1420	1460	1400	1570	1430	1450	1360	1350	1200	1370	---	1450
3	1390	1460	1390	1550	1410	1450	1380	1330	1240	1360	1370	1450
4	1370	1460	1400	1560	1410	1440	1410	1240	1300	1360	1360	1450
5	1270	1440	1440	1540	1410	1450	1410	1080	1330	1330	1370	1440
6	1420	1450	1450	1530	1420	1440	1410	1040	1330	1320	1360	1440
7	1430	1450	1460	1570	1420	1440	1370	915	1350	---	1380	1440
8	1370	1460	1460	1510	1400	1440	1360	869	1350	---	1360	1440
9	1440	1470	1460	1450	1420	1280	1410	856	1350	---	1340	1440
10	1440	1460	1470	1490	1420	1330	1420	910	1380	---	1380	1440
11	1320	1450	1480	1500	1410	1410	1440	1110	1430	---	1390	1220
12	1330	1440	1480	1510	1410	1410	1450	1100	1410	---	1390	1280
13	1440	1420	1490	1490	1440	1410	1450	1190	1390	---	1370	1260
14	1440	1400	1490	1490	1430	1400	1460	1250	1340	---	1390	1340
15	---	1380	1490	1440	1430	1400	1450	1250	1340	---	1390	1360
16	1300	1390	1500	1440	1420	1400	1440	1260	1360	---	1390	1370
17	1410	1400	1500	1440	1380	1390	1450	1270	1360	---	1390	1400
18	1420	1400	1510	1440	1350	1380	1450	1290	1340	---	1400	1340
19	1440	1390	1530	1440	1300	1370	1440	1240	1330	---	1390	1380
20	1420	1410	1530	1460	1150	1350	1420	1250	1340	1380	1400	1390
21	1420	1400	1520	1450	1220	1340	1420	1270	1350	1370	1410	1380
22	1410	1400	1530	1440	1070	1350	1330	1280	1350	1370	1390	1390
23	1420	1410	1540	1440	1180	1350	1120	1280	1340	1370	1410	1390
24	1430	1410	1540	1450	1440	1400	1090	1260	1360	---	1420	1380
25	1430	1400	1530	1450	1450	1440	1180	1260	1350	---	1420	1390
26	1430	1400	1530	1450	1440	1430	1230	1300	1360	---	1430	1390
27	1450	1400	1550	1440	1460	1400	1330	1320	1360	---	1430	1230
28	1480	1400	1560	1440	1460	1400	1390	1320	1380	---	1440	1300
29	1440	1400	1560	1450	---	1400	1340	1300	1370	---	1450	1290
30	1450	1400	1560	1440	---	1400	1370	1250	1370	1390	1420	1340
31	1460	---	1570	1440	---	1400	---	1250	---	1390	---	---
MEAN	1410	1420	1490	1480	1380	1400	1370	1200	1340		1390	1380

WTR YR 1982 MEAN 1390 MAX 1570 MIN 856

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.5	10.0	12.0	8.0	9.5	7.0	9.0	7.0	9.5	7.5	10.5	8.0
2	13.5	9.5	12.0	8.0	10.0	7.5	9.0	6.5	9.5	7.0	12.5	8.0
3	14.5	10.0	12.0	8.5	10.0	8.0	8.5	6.0	9.5	7.0	11.0	7.0
4	11.5	8.0	12.5	8.5	10.5	8.0	9.0	6.5	8.5	7.0	11.0	7.0
5	13.5	5.5	12.0	8.5	10.5	8.0	8.5	7.0	9.0	6.5	11.0	7.0
6	14.0	9.0	12.5	8.5	10.5	8.0	8.5	6.0	9.5	6.5	12.0	7.0
7	14.0	9.0	12.0	9.0	10.5	8.0	8.0	6.0	9.5	7.0	12.0	7.5
8	12.5	9.5	11.5	8.5	10.5	8.0	9.0	6.0	9.5	7.0	12.0	1.5
9	13.0	9.0	12.0	8.0	10.5	8.0	9.0	6.5	9.5	7.0	12.5	6.0
10	13.5	9.0	11.5	8.0	10.5	8.0	9.5	7.0	10.0	7.0	11.0	8.0
11	11.5	5.0	11.5	8.0	10.5	8.0	9.5	7.0	10.5	7.5	12.5	8.0
12	13.0	6.5	11.5	8.0	10.5	8.0	9.0	6.5	10.5	7.0	12.5	7.0
13	12.5	9.0	11.5	8.5	9.5	8.0	9.0	7.0	10.5	7.5	13.5	7.0
14	12.5	9.0	11.0	8.5	10.5	8.0	9.5	7.0	11.0	8.5	12.5	7.5
15	10.5	6.0	11.5	9.0	10.5	8.0	9.0	7.0	11.0	8.0	13.0	8.0
16	12.0	7.0	11.5	8.5	9.5	7.5	10.0	6.0	10.5	8.0	12.5	6.5
17	12.0	9.0	10.5	8.5	9.5	7.0	9.5	6.0	11.5	7.5	12.5	6.5
18	13.0	8.5	10.0	8.0	10.0	7.0	9.0	7.5	11.0	7.0	13.0	7.0
19	13.0	8.5	10.5	7.5	10.0	8.0	9.5	7.0	10.5	6.5	11.0	6.5
20	13.0	8.5	10.0	8.0	10.0	8.0	9.0	7.0	10.5	3.0	11.0	7.0
21	12.5	8.5	10.5	8.0	9.5	7.5	9.5	6.0	11.0	1.5	10.5	7.0
22	12.5	8.5	10.5	8.5	9.0	7.0	9.0	6.5	11.5	1.0	13.0	7.0
23	12.5	8.5	11.0	8.5	9.0	6.5	9.5	7.0	11.0	3.5	13.0	7.0
24	10.0	8.0	10.5	8.5	9.0	6.5	10.5	7.5	11.0	7.0	13.5	7.0
25	12.0	8.0	9.0	7.5	9.0	7.0	10.5	7.5	12.0	7.5	14.0	7.0
26	12.5	8.0	10.0	7.0	8.5	6.5	10.0	8.0	12.5	7.5	10.5	8.5
27	12.5	8.5	9.5	7.5	8.5	6.5	10.5	7.0	12.0	8.0	11.5	8.5
28	11.5	8.5	9.5	7.5	8.5	6.5	10.5	7.5	12.5	8.0	13.5	8.0
29	10.5	8.0	10.0	7.5	9.5	7.0	9.5	7.5	---	---	11.5	6.0
30	11.5	6.5	9.0	7.5	8.5	7.0	10.0	7.5	---	---	10.0	7.0
31	11.5	7.5	---	---	9.0	7.0	10.0	7.5	---	---	13.0	7.0
MONTH	14.5	5.0	12.5	7.0	10.5	6.5	10.5	6.0	12.5	1.0	14.0	1.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.5	7.5	15.5	7.5	17.0	7.5	16.0	9.5	17.5	10.0	16.0	9.5
2	12.0	6.0	16.0	7.0	18.0	6.5	17.0	8.5	17.0	11.5	16.0	9.0
3	13.0	7.0	17.0	9.0	17.5	8.0	17.0	8.0	16.5	11.0	16.0	9.0
4	13.0	7.0	12.5	7.0	17.5	7.0	17.0	8.5	17.5	9.5	15.5	10.0
5	13.0	7.0	15.0	5.0	17.0	7.0	14.5	9.5	17.5	10.0	16.0	10.0
6	12.0	7.5	16.0	4.5	17.5	5.5	17.5	8.0	18.0	10.0	16.0	9.0
7	11.0	7.0	15.0	5.0	17.0	6.0	---	---	17.5	10.5	15.0	9.5
8	13.0	7.0	16.0	7.5	18.0	6.5	---	---	16.0	10.5	15.0	9.5
9	13.0	7.0	15.0	6.0	18.5	6.5	---	---	18.5	10.5	15.5	9.5
10	13.5	7.0	14.5	5.0	17.5	7.0	---	---	17.5	10.0	15.5	10.0
11	14.5	8.0	13.5	6.0	18.0	8.0	---	---	17.0	11.0	12.0	10.0
12	11.5	8.0	8.0	5.5	16.0	9.0	---	---	17.0	11.0	16.0	6.0
13	15.0	8.0	11.5	6.0	16.0	8.5	---	---	16.5	11.0	11.5	8.5
14	14.5	8.0	15.0	6.5	16.5	8.5	---	---	18.0	10.0	11.5	8.0
15	14.0	8.0	16.5	5.0	16.5	8.5	---	---	17.5	10.0	14.5	8.5
16	13.5	7.5	15.5	6.0	18.0	8.0	---	---	17.0	10.5	15.5	8.5
17	14.0	7.5	18.0	6.0	17.5	9.5	---	---	16.5	10.5	15.0	9.5
18	13.5	7.5	16.5	7.0	16.0	9.5	---	---	17.5	10.5	15.5	8.5
19	12.0	7.0	16.5	5.5	18.0	8.5	---	---	17.5	10.5	15.5	9.5
20	11.0	7.0	16.5	7.0	18.5	8.0	18.0	10.5	16.5	10.5	15.5	9.0
21	13.5	7.0	19.5	5.5	18.0	9.0	17.5	10.0	17.0	11.0	16.0	9.0
22	16.0	7.0	18.0	6.5	17.0	9.5	17.0	10.5	18.0	11.0	15.0	9.0
23	15.0	7.5	18.5	8.0	16.5	9.0	18.0	11.0	18.5	10.0	15.5	9.5
24	16.0	7.0	18.0	7.0	18.5	8.5	18.0	11.0	17.5	10.5	15.0	9.0
25	14.0	7.5	19.0	6.5	18.0	9.5	---	---	16.0	10.5	13.0	10.0
26	15.0	7.0	20.0	7.0	18.0	8.0	---	---	16.5	9.5	15.0	10.0
27	15.5	7.0	18.0	8.0	19.0	9.0	---	---	16.5	10.0	13.5	8.5
28	17.0	6.0	17.0	8.0	18.0	9.0	---	---	16.0	9.5	13.5	7.0
29	15.0	7.0	17.5	7.0	17.5	9.0	---	---	16.5	10.5	11.0	6.5
30	17.0	5.5	15.0	7.5	18.0	10.0	17.5	10.5	17.0	10.0	14.0	9.0
31	---	---	19.5	5.5	---	---	18.0	10.0	15.5	9.5	---	---
MONTH	17.0	5.5	20.0	4.5	19.0	5.5			18.5	9.5	16.0	6.0
YEAR	20.0	1.0										

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	1.0	52	.14	.94	---	.05	.70	---	.05
2	1.0	70	.19	.94	---	.05	.70	14	.03
3	1.1	87	.26	.94	---	.10	.70	---	.05
4	1.2	125	.41	.94	---	.10	.70	---	.05
5	2.1	---	300	.94	---	.10	.70	---	.05
6	1.1	---	.15	.99	---	.15	.70	---	.05
7	1.1	---	.15	.89	---	.15	.70	45	.08
8	1.3	---	1.0	.79	---	.15	.70	---	.10
9	1.1	2	.15	.79	---	.15	.65	---	.10
10	1.0	---	.15	.84	84	.19	.65	---	.10
11	2.4	---	350	.79	79	.17	.64	---	.10
12	1.4	---	5.0	.79	---	.15	.60	---	.10
13	1.2	55	.20	.79	---	.15	.59	---	.10
14	1.2	---	.20	.79	---	.15	.59	---	.10
15	1.6	---	150	.79	70	.15	.55	---	.10
16	1.2	55	.18	.79	---	.15	.58	---	.10
17	1.0	---	.10	.79	82	.17	.54	---	.05
18	1.0	---	.10	.84	---	.20	.53	---	.05
19	1.0	---	.05	.84	---	.20	.53	---	.05
20	1.0	3	.00	.79	---	.20	.53	---	.05
21	1.0	63	.17	.79	---	.20	.52	---	.05
22	1.0	65	.18	.79	---	.20	.52	---	.05
23	1.0	---	.15	.79	---	.20	.51	---	.05
24	.99	---	.15	.79	---	.20	.51	---	.05
25	.94	---	.10	.79	---	.20	.51	---	.05
26	.94	---	.10	.79	---	.20	.50	---	.05
27	.89	---	.10	.75	---	.15	.46	---	.05
28	.89	51	.12	.75	---	.15	.46	---	.05
29	.94	33	.08	.75	---	.15	.45	---	.05
30	.94	23	.05	.70	---	.10	.45	---	.05
31	.94	---	.05	---	---	---	.45	---	.05
TOTAL	35.47	---	809.68	24.69	---	4.63	17.92	---	2.01

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	.44	---	.05	.62	---	.05	.79	---	.15
2	.44	---	.05	.62	---	.05	.79	---	.15
3	.43	---	.05	.63	---	.05	.80	---	.15
4	.43	---	.05	.63	---	.05	.80	---	.15
5	.43	---	.05	.63	---	.05	.76	---	.15
6	.42	---	.05	.68	---	.05	.77	---	.15
7	.42	---	.05	.64	---	.05	.82	---	.15
8	.38	---	.05	.69	---	.05	.87	---	2.0
9	.38	---	.05	.65	---	.05	.74	---	.10
10	.37	---	.05	.70	---	.05	.70	---	.10
11	.37	---	.05	.70	---	.05	.70	62	.12
12	.37	---	.05	.70	---	.05	.66	---	.10
13	.39	---	.05	.75	---	.05	.65	---	.10
14	.39	48	.05	.76	---	.05	.61	---	.05
15	.39	---	.05	.76	---	.05	.60	37	.05
16	.40	---	.05	.82	---	.05	.56	61	.09
17	.40	---	.05	.82	---	.05	.56	---	.10
18	.37	---	.05	.88	---	.09	.55	---	.10
19	.41	---	.05	.93	---	.80	.55	---	.10
20	.41	31	.03	1.5	---	8.0	.55	---	.10
21	.42	---	.05	2.0	---	15	.54	---	.10
22	.46	---	.05	2.3	1360	17	.54	---	.10
23	.46	---	.05	1.1	83	4.0	.57	---	.10
24	.51	---	.05	.81	---	.15	.57	52	.08
25	.51	---	.05	.82	---	.15	.57	---	.10
26	.55	---	.05	.82	---	.15	.60	---	.10
27	.56	---	.05	.83	---	.15	.64	---	.15
28	.60	---	.05	.78	---	.10	.64	77	.13
29	.60	---	.05	---	---	---	.67	---	.15
30	.61	---	.05	---	---	---	.67	---	.15
31	.61	---	.05	---	---	---	.71	62	.12
TOTAL	13.93	---	1.53	24.57	---	46.44	20.55	---	5.44

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	.70	---	.10	.75	---	.25	.92	---	.70
2	.66	---	.10	.70	---	.25	.89	---	.60
3	.65	---	.10	.75	148	.30	.86	---	.30
4	.65	67	.12	1.0	1000	2.7	.86	100	.23
5	.61	---	.10	1.1	1400	4.2	.85	---	.30
6	.64	64	.11	.87	2670	7.7	.88	300	.71
7	.64	64	.11	1.1	---	2.5	.80	300	.64
8	.63	---	.10	1.0	---	2.5	.71	300	.58
9	.63	---	.10	1.1	---	2.5	.69	240	.45
10	.63	---	.10	1.2	900	2.9	.67	230	.41
11	.62	---	.10	1.2	---	3.0	.55	---	.20
12	.66	---	.10	1.5	---	4.0	.48	---	.10
13	.62	---	.05	1.3	---	3.5	.44	22	.03
14	.57	13	.02	1.1	---	2.5	.40	---	.03
15	.61	67	.11	1.2	---	2.5	.90	---	.05
16	.60	---	.10	1.1	---	2.5	.89	17	.04
17	.60	---	.10	1.0	---	2.5	.93	---	.05
18	.60	---	.10	.96	---	2.5	.97	---	.05
19	.59	---	.10	.89	1100	2.6	1.0	---	.05
20	.59	---	.10	.78	1050	2.2	1.0	18	.04
21	.63	---	.15	.76	1000	2.1	.99	---	.05
22	.75	---	.20	.77	700	1.5	1.1	---	.05
23	.79	---	.20	.77	---	1.1	.98	17	.04
24	.78	---	.20	.87	650	1.5	.88	---	.05
25	.73	---	.20	1.0	500	1.4	.95	---	.05
26	.77	---	.20	.92	370	.92	1.0	---	.10
27	.77	---	.20	.84	350	.79	1.0	---	.10
28	.77	---	.20	.82	380	.84	.97	33	.08
29	.72	---	.20	.75	650	1.3	.95	---	.05
30	.76	---	.20	.92	502	1.3	1.0	---	.10
31	---	---	---	.96	350	.91	---	---	---
TOTAL	19.97	---	3.87	29.98	---	67.26	25.51	---	6.23
		JULY			AUGUST			SEPTEMBER	
1	.99	---	.10	.76	---	.20	.63	0	1.0
2	1.0	---	.10	1.6	35800	1380	.59	---	.20
3	.93	37	.09	.79	---	1.5	.55	---	.10
4	.92	---	.10	.82	---	.80	.55	---	.10
5	.92	---	.10	.75	---	.30	.56	---	.10
6	.96	---	.20	.73	---	.30	.57	---	.10
7	.98	---	.20	.66	---	.20	.58	69	.11
8	.99	78	.20	.76	---	.30	.54	87	.13
9	1.0	---	.20	.76	---	.30	.50	30	.04
10	1.0	---	.20	.67	---	.20	.50	---	.05
11	1.0	---	.15	.69	96	.18	1.2	3180	19
12	1.0	---	.10	.63	---	.20	1.5	---	20
13	1.0	33	.09	.72	---	.20	.75	---	.20
14	1.0	---	.10	.68	---	.20	.70	---	.20
15	1.0	---	.10	.69	---	.20	.62	---	.15
16	.97	---	.10	.71	116	.22	.58	56	.08
17	.99	---	.10	.68	---	.20	.50	24	.03
18	.98	30	.08	.67	---	.20	.54	2060	8.0
19	.96	---	.10	.69	---	.20	.54	27	.04
20	.82	---	.05	.68	---	.15	.54	23	.03
21	.75	---	.05	.67	84	.15	.58	23	.04
22	.81	---	.05	.70	---	.20	.54	---	.05
23	.80	23	.06	.69	---	.20	.54	35	.05
24	1.0	813	6.0	.67	---	.10	.58	60	.09
25	.88	---	1.0	.68	---	.05	.62	42	.07
26	.87	---	.50	.66	19	.03	.61	56	.09
27	.82	---	.30	.67	---	.05	.88	12600	41
28	.81	---	.30	.70	---	.10	.73	---	1.0
29	.89	186	.45	.70	---	.10	.79	---	1.0
30	.86	60	.14	.66	34	.06	.69	---	.20
31	.79	---	.10	.85	2030	13	---	---	---
TOTAL	28.69	---	11.41	22.79	---	1400.09	19.60	---	93.25
YEAR	283.67		2451.84						

09306255 YELLOW CREEK NEAR WHITE RIVER, CO

LOCATION.--Lat 40°10'07", long 108°24'02", in NE¼SW¼ sec.4, T.2 N., R.98 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 160 ft (49 m) downstream from bridge on State Highway 64, 0.3 mi (0.5 km) upstream from mouth, and 10 mi (16 km) northwest of White River City.

DRAINAGE AREA.--262 mi^2 (679 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to September 1982 (discontinued).

GAGE.--Water-stage recorder. Concrete control since Sept. 18, 1974. Altitude of gage is 5,535 ft (1,687 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 300 acres (1.21 km^2) above station.

AVERAGE DISCHARGE.--10 years, 1.90 ft^3/s (0.054 m^3/s) 1,380 acre-ft/yr (1.70 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,800 ft^3/s (193 m^3/s) Sept. 7, 1978, gage height, 12.97 ft (3.953 m), from contracted opening and flow over road measurement of peak flow; no flow Sept. 7-16, 1978, Dec. 15, 1978, to Jan. 14, 1979.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 25, 1965, reached a discharge of 1,050 ft^3/s (29.7 m^3/s) by slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft^3/yr (2.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 20	2000	101	2.86	6.93	2.112	Feb. 22	1830	148	4.19	7.03	2.142
Feb. 21	1830	*165	4.67	7.19	2.191						

Minimum daily discharge, 0.83 ft^3/s (0.023 m^3/s) Dec. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.85	1.5	.83	1.8	2.1	1.9	1.4	1.7	1.6	1.4	.94	1.3
2	.94	1.6	1.3	1.5	2.0	2.4	1.5	1.7	1.6	1.3	.97	1.3
3	1.1	1.6	1.3	1.8	1.8	2.2	1.4	1.8	1.6	1.3	1.1	1.3
4	2.4	1.6	1.6	1.6	2.0	1.9	1.4	1.8	1.5	1.3	1.1	1.3
5	1.2	1.5	1.6	1.9	2.8	1.8	1.4	1.7	1.5	1.3	1.0	1.3
6	1.0	1.5	1.5	1.7	3.0	1.7	1.5	1.7	1.5	1.3	1.0	1.3
7	.96	1.5	1.5	1.2	2.6	1.8	1.7	1.8	1.5	1.2	.99	1.3
8	1.3	1.5	1.8	1.4	2.0	1.8	1.6	1.7	1.5	1.2	1.5	1.3
9	1.1	1.5	1.9	1.5	1.9	1.8	1.6	1.7	1.4	1.2	1.6	1.3
10	1.1	1.5	2.0	1.5	2.2	1.8	1.5	1.7	1.5	1.2	1.3	1.3
11	1.3	1.5	2.0	1.5	1.8	1.9	1.4	1.8	1.4	1.2	1.3	3.1
12	1.4	1.5	2.0	1.5	1.8	1.7	1.6	2.3	1.5	1.2	1.2	3.7
13	1.3	1.5	2.0	1.5	1.9	1.6	1.4	2.2	1.4	1.2	1.6	3.8
14	1.3	1.5	1.9	1.5	1.9	1.5	1.4	2.3	1.4	1.2	1.5	2.7
15	2.2	1.5	1.9	1.7	1.9	1.6	1.5	1.9	1.5	1.2	1.4	2.2
16	1.7	1.5	1.8	1.9	2.4	1.6	1.5	1.9	1.4	1.2	1.3	2.0
17	1.6	1.5	1.7	2.0	14	1.6	1.5	1.9	1.4	1.2	1.4	1.9
18	1.4	1.5	1.4	2.1	18	1.6	1.5	1.8	1.4	1.2	1.6	1.9
19	1.4	1.5	2.2	2.6	19	1.6	1.5	1.9	1.4	1.2	1.4	1.8
20	1.4	1.8	2.0	2.1	29	1.6	1.5	1.8	1.3	1.1	1.3	2.0
21	1.4	1.8	2.1	2.1	54	1.5	1.4	1.5	1.3	1.0	1.3	1.9
22	1.5	1.8	1.8	2.1	56	1.4	1.5	1.4	1.4	1.1	1.3	1.9
23	1.5	1.7	1.6	2.1	46	1.3	1.5	1.4	1.3	1.1	1.3	1.8
24	1.6	1.8	1.4	2.2	3.4	1.3	1.5	1.3	1.3	1.3	1.2	1.8
25	1.5	2.0	2.1	2.1	1.8	1.3	1.5	1.5	2.1	1.2	4.2	1.8
26	1.5	1.0	1.8	2.1	1.8	1.4	1.6	1.6	1.6	1.2	1.4	1.9
27	1.5	1.1	2.0	2.1	2.0	1.5	1.6	1.5	1.5	1.2	1.1	3.4
28	1.5	1.3	1.4	2.1	1.9	1.4	1.6	1.6	1.4	1.2	1.3	4.7
29	1.6	1.3	1.4	2.0	---	1.5	1.7	1.6	1.4	1.4	2.4	3.8
30	1.7	1.3	1.8	2.0	---	1.5	1.7	1.7	1.4	1.1	1.5	2.5
31	1.5	---	1.7	2.2	---	1.4	---	1.7	---	1.0	1.3	---
TOTAL	43.75	45.7	53.33	57.4	281.0	50.9	45.4	53.9	44.0	37.4	43.80	63.6
MEAN	1.41	1.52	1.72	1.85	10.0	1.64	1.51	1.74	1.47	1.21	1.41	2.12
MAX	2.4	2.0	2.2	2.6	56	2.4	1.7	2.3	2.1	1.4	4.2	4.7
MIN	.85	1.0	.83	1.2	1.8	1.3	1.4	1.3	1.3	1.0	.94	1.3
AC-FT	87	91	106	114	557	101	90	107	87	74	87	126

CAL YR 1981 TOTAL 610.08 MEAN 1.67 MAX 3.0 MIN .64 AC-FT 1210
WTR YR 1982 TOTAL 820.18 MEAN 2.25 MAX 56 MIN .83 AC-FT 1630

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to September 1982 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1975 to current year.
WATER TEMPERATURE: April 1975 to current year.
SUSPENDED-SEDIMENT DISCHARGE: April 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1975. Pumping sediment sampler since April 1974.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 5,790 micromhos Sept. 17, 1978; minimum, 457 micromhos July 21, 1979.
WATER TEMPERATURES: Maximum, 35.0°C July 25, 1978; minimum, freezing point on many days during winter months each year.
SEDIMENT CONCENTRATIONS: Maximum daily, 44,000 mg/L Sept. 7, 1978; minimum daily, no flow several days during September 1978, many days during 1979.
SEDIMENT LOADS: Maximum daily, 290,000 tons (263,000 t) Sept. 7, 1978; minimum daily, no flow several days during September 1978, many days during 1979.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, not determined; minimum not determined.
WATER TEMPERATURES: Maximum, 32.5°C July 31, Aug. 21; minimum freezing point on many days during November to April.
SEDIMENT CONCENTRATIONS: Maximum daily, 11,950 mg/L Feb. 23; minimum daily, 6 mg/L Sept. 5.
SEDIMENT LOADS: Maximum daily, 1,940 tons (1,760 t) Feb. 21; minimum daily, 0.02 ton (0.02 t) Sept. 5.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (FTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)
OCT 21...	1045	1.4	3700	3150	8.6	6.0	54	10.5	46	.7	130	81
FEB 17...	1030	2.4	2700	2810	8.5	1.0	--	11.3	--	--	--	--
22...	1945	125	460	455	8.2	.0	4800	10.5	210	6.9	K60000	K17
SEP 22...	1125	2.0	3200	3200	8.8	16.5	--	11.6	--	--	--	--

DATE	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)
OCT 21...	580	33	120	770	14	4.0	1480	.1	560	160	2.4	.10
FEB 17...	540	35	110	550	10	4.6	1110	--	520	84	1.7	--
22...	73	11	11	89	5.2	5.0	200	.5	75	9.1	.3	<.00
SEP 22...	470	30	97	670	13	3.2	1210	--	490	120	.3	--

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
OCT 21...	<1.9	2640	--	--	--	23	<.060	--	.53	<.010	740	8.3
FEB 17...	15	--	1990	2.7	12.9	--	--	--	--	--	460	14
22...	6.6	418	327	.44	110	4990	.250	1.7	1.9	.170	90	12
SEP 22...	9.2	--	2150	2.9	11.6	--	--	--	--	--	660	7.1

K BASED ON NON-IDEAL COLONY COUNT.

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	ANTI- MONY, TOTAL (UG/L AS SB)	ARSENIC DIS- SOLVED (UG/L AS AS)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)
OCT							
21...	0	3	.0	1	1.0	<62	1.5
FEB							
22...	2	3	<.1	1	430	<9.2	630

DATE	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
OCT						
21...	<32	1.5	<31	1.4	.08	4.8
FEB						
22...	7.8	380	7.5	370	.16	2.2

DATE	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)
OCT											
21...	>.01	--	0	.00	.00	.00	.00	.00	.00	.00	.00
FEB											
22...	<.01	5	0	.00	.00	.00	.00	.00	.00	.00	.00

DATE	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)
OCT										
21...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
FEB										
22...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT										
21...	.00	.00	.00	.00	0	.00	.00	.00	.00	.00
FEB										
22...	.00	.00	.00	.00	0	.00	.00	.00	.00	.00

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
01...	1050	.91	55	.14	--
21...	1045	1.4	71	.27	--
DEC					
11...	1450	2.0	199	1.1	--
FEB					
16...	1735	2.8	1885	14	--
20...	1850	58	13200	2070	80
20...	1852	58	12800	2000	--
21...	1925	157	16500	6990	--
MAR					
09...	1601	1.8	3080	15	--
22...	1323	1.4	665	2.5	--
APR					
21...	1430	1.5	402	1.6	--
SEP					
22...	1145	1.7	76	.35	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3670	---	---	3670	3330	---	3600	3970	3820	3660	---	3340
2	3620	---	---	---	3330	---	3400	3980	---	3670	3320	3320
3	3340	---	---	---	3370	---	3630	3870	---	3650	3410	3310
4	2290	---	---	---	3580	---	3600	3700	4110	3620	3440	3270
5	3400	---	---	---	3600	---	3590	3580	---	3780	3450	3250
6	3720	---	---	---	---	---	3570	3690	---	3820	3410	3210
7	3750	---	3740	---	---	---	3420	3700	---	3830	3390	3190
8	3280	---	3690	---	---	---	3720	3720	---	3790	3190	3220
9	3740	---	4050	---	---	3320	3600	3700	3800	3780	3090	3270
10	3740	---	3730	---	---	3380	3580	3790	3510	3740	3340	3260
11	3570	---	3670	---	---	3410	3640	3670	---	3710	3280	2730
12	---	---	3810	3650	---	---	3550	3790	---	3760	3250	3020
13	---	---	3750	3650	---	---	3630	3780	3750	3710	2880	2460
14	---	---	3710	3700	---	---	3670	3710	3600	3710	2960	3080
15	---	---	3610	3640	---	---	3650	3680	3590	3610	3300	3160
16	---	3750	3770	3530	---	---	3650	3610	3620	3560	3210	3240
17	---	3680	3820	3390	---	---	3580	3430	3650	3500	3160	3210
18	---	3480	4290	3360	---	---	3590	3590	3610	3500	3140	3220
19	3640	3750	3650	3440	---	---	3570	3590	3640	3480	3300	3190
20	3640	3820	3510	3440	---	---	3650	3580	3670	3450	3270	3120
21	3650	3520	3430	3410	680	---	3760	3620	3650	3470	3260	3120
22	---	3570	3540	3400	512	3530	3770	---	3630	3510	3230	3100
23	---	3730	4000	3490	769	3560	3720	3700	3640	3490	3200	3130
24	---	3790	---	3380	1650	3620	3750	3740	3680	3280	3160	3110
25	---	3580	4070	3400	---	3600	3730	3720	3200	3340	2610	3090
26	---	---	4230	3330	---	3620	3720	3650	---	3420	3130	3040
27	---	---	3980	3160	---	3580	3670	3680	3800	3420	3270	2630
28	---	---	4140	3210	---	3630	3830	3610	3780	3370	3310	2530
29	---	---	4190	3350	---	3550	3610	3760	3790	3240	2880	2610
30	---	---	3870	3490	---	3520	3600	3690	3770	---	3360	3050
31	---	---	3830	3450	---	3620	---	3750	---	---	3350	---
MEAN							3640	3700		3580	3220	3080

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	21.0	6.5	---	---	---	---	.5	.0	4.0	.0	8.0	1.0
2	16.0	8.5	---	---	---	---	.0	.0	3.0	.0	7.5	.5
3	17.0	10.5	---	---	---	---	.0	.0	1.5	.0	7.5	.0
4	12.0	8.5	---	---	---	---	.0	.0	.5	.0	8.5	1.5
5	18.5	7.0	---	---	---	---	.0	.0	.5	.0	9.0	.5
6	20.5	4.5	---	---	---	---	.0	.0	.5	.0	10.0	1.5
7	19.0	6.5	---	---	2.0	.0	.0	.0	.5	.0	8.5	.0
8	14.5	9.5	---	---	3.0	.0	.0	.0	.5	.0	11.5	.5
9	17.0	6.0	---	---	2.5	.0	.0	.0	.0	.0	12.0	.0
10	16.5	5.0	---	---	5.0	.0	.0	.0	1.0	.0	9.5	.5
11	12.0	6.0	---	---	5.5	.0	.0	.0	2.0	.5	9.0	1.5
12	17.0	5.0	---	---	4.0	.0	.0	.0	2.0	.5	---	---
13	16.5	5.0	---	---	6.0	.5	.0	.0	2.5	.5	---	---
14	13.0	5.5	---	---	5.0	.0	.0	.0	2.5	2.0	---	---
15	9.5	5.0	---	---	6.5	.5	.0	.0	2.5	2.0	---	---
16	11.0	5.0	11.5	5.0	2.5	.0	.0	.0	2.5	.0	---	---
17	15.0	5.0	8.5	.5	.0	.0	.0	.0	1.0	.0	---	---
18	17.0	3.0	5.5	.5	.0	.0	.0	.0	.0	.0	---	---
19	16.5	1.5	2.5	.0	2.0	.0	.5	.0	.0	.0	---	---
20	15.5	1.5	1.5	.0	6.0	.0	1.5	.0	2.0	.0	---	---
21	---	---	4.0	.0	3.5	.0	1.5	.0	2.5	.0	---	---
22	---	---	8.0	.0	1.5	.0	1.5	.0	---	---	14.0	.5
23	---	---	9.5	2.5	.0	.0	.0	.0	4.0	.0	15.0	.0
24	---	---	8.5	.0	.0	.0	3.0	.0	6.5	.0	16.0	.0
25	---	---	4.0	.0	.0	.0	2.5	.0	8.5	.0	18.5	.0
26	---	---	---	---	.0	.0	3.0	.5	8.0	.5	9.0	3.0
27	---	---	---	---	.0	.0	3.5	1.0	8.0	.5	13.5	4.5
28	---	---	---	---	.0	.0	1.0	.5	10.0	.0	16.5	2.5
29	---	---	---	---	.0	.0	3.0	.0	---	---	5.5	.0
30	---	---	---	---	.0	.0	.5	.0	---	---	10.5	.0
31	---	---	---	---	.0	.0	2.0	.0	---	---	15.5	.0
MONTH					6.5	.0	3.5	.0	10.0	.0		

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.5	.0	20.5	4.5	19.0	8.0	26.0	12.5	29.5	13.0	27.5	11.0
2	14.0	.0	20.5	5.5	26.0	5.5	29.0	8.5	30.5	17.0	26.5	9.0
3	18.5	.0	18.0	9.0	27.5	9.0	29.0	8.5	28.0	15.0	25.5	9.0
4	14.0	.5	18.0	6.5	26.5	6.0	28.0	9.5	29.0	13.0	24.0	11.0
5	16.5	.0	20.5	2.5	24.5	6.5	22.5	13.5	32.0	13.5	26.0	14.0
6	12.5	.5	21.5	.0	25.0	4.5	27.5	8.0	32.0	13.0	27.0	10.5
7	11.0	.0	21.5	2.0	25.0	3.5	28.5	9.0	31.5	14.5	21.5	12.0
8	13.5	.0	20.0	6.0	24.5	5.5	29.0	13.0	26.0	14.5	24.5	11.0
9	17.0	.0	19.0	6.0	28.0	4.5	28.0	13.0	31.0	14.0	25.5	11.0
10	18.0	.0	19.5	5.0	26.0	5.0	30.5	9.5	29.0	14.0	21.5	12.5
11	18.5	2.0	19.5	5.5	29.5	7.0	29.5	12.0	27.0	15.5	15.5	12.0
12	17.0	5.0	8.5	4.0	23.5	7.0	31.0	11.0	28.5	15.0	20.5	9.0
13	21.5	2.5	16.5	5.5	25.0	8.0	27.0	13.5	22.5	15.5	12.0	9.5
14	21.0	.0	23.0	6.5	27.5	7.5	30.5	12.0	29.5	13.0	14.5	7.0
15	19.0	.5	22.0	4.5	25.0	9.0	28.5	12.0	28.5	14.0	19.5	7.5
16	18.5	.0	24.0	5.0	30.0	8.0	29.0	10.5	28.0	15.0	23.0	8.5
17	18.5	.0	24.0	5.5	30.5	10.5	26.5	14.5	27.0	14.0	22.0	11.5
18	18.5	.0	23.0	7.0	25.0	11.5	28.5	12.5	29.5	15.0	24.5	8.0
19	15.5	.0	25.5	6.0	29.0	7.0	30.5	12.5	31.0	14.5	21.0	10.5
20	11.5	.0	25.5	6.0	30.5	8.5	30.0	13.0	30.5	14.0	22.5	9.5
21	18.0	.0	27.5	5.0	26.0	10.0	32.5	13.0	32.5	15.5	25.0	9.5
22	22.0	.0	28.5	5.5	27.0	12.0	30.0	16.0	31.0	16.5	23.0	9.5
23	14.5	1.0	28.0	8.5	26.5	10.5	31.0	15.5	29.5	14.0	24.5	10.5
24	23.5	2.0	26.0	6.5	30.5	10.0	29.0	16.5	30.0	15.0	23.0	8.0
25	23.0	1.5	26.0	5.0	28.5	8.5	30.5	14.5	21.5	14.0	15.0	11.0
26	19.5	4.5	28.0	7.0	---	---	32.0	16.0	28.0	12.0	20.5	12.5
27	22.0	5.5	25.5	7.5	26.5	10.5	30.5	17.0	25.5	13.0	14.0	9.0
28	23.0	2.0	23.5	8.0	29.0	11.0	24.0	17.0	23.0	13.0	13.5	7.5
29	20.5	5.0	25.0	5.0	26.5	10.0	28.5	16.5	26.0	13.0	13.0	6.5
30	22.5	1.5	21.5	8.5	26.5	13.5	31.5	13.5	25.5	12.0	16.5	7.5
31	---	---	28.0	5.0	---	---	32.5	13.0	25.5	11.5	---	---
MONTH	23.5	.0	28.5	.0	30.5	3.5	32.5	8.0	32.5	11.5	27.5	6.5
YEAR	32.5	.0										

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.85	35	.08	1.5	---	.80	.83	67	.15
2	.94	44	.11	1.6	---	.90	1.3	75	.26
3	1.1	1650	6.8	1.6	---	.90	1.3	---	.40
4	2.4	9820	96	1.6	200	.86	1.6	---	1.0
5	1.2	---	5.0	1.5	---	.50	1.6	---	.70
6	1.0	---	2.0	1.5	---	.30	1.5	---	1.0
7	.96	327	.85	1.5	60	.23	1.5	231	1.1
8	1.3	1990	11	1.5	---	.20	1.8	---	1.0
9	1.1	---	.50	1.5	---	.30	1.9	---	1.0
10	1.1	140	.41	1.5	---	.50	2.0	---	1.0
11	1.3	---	8.0	1.5	---	.60	2.0	199	1.1
12	1.4	---	7.0	1.5	180	.73	2.0	---	1.0
13	1.3	300	1.0	1.5	---	.60	2.0	---	1.0
14	1.3	---	5.0	1.5	---	.40	1.9	---	1.0
15	2.2	---	10	1.5	96	.39	1.9	---	1.0
16	1.7	420	1.9	1.5	113	.46	1.8	202	1.2
17	1.6	---	1.0	1.5	---	.50	1.7	---	1.0
18	1.4	---	.20	1.5	120	.48	1.4	---	.50
19	1.4	27	.10	1.5	120	.48	2.2	150	.89
20	1.4	25	.09	1.8	140	.87	2.0	---	.80
21	1.4	65	.25	1.8	171	.90	2.1	---	.80
22	1.5	28	.11	1.8	115	.56	1.8	---	.70
23	1.5	35	.14	1.7	---	.60	1.6	---	.60
24	1.6	15	.06	1.8	144	.70	1.4	---	.40
25	1.5	42	.17	2.0	150	.81	2.1	---	.80
26	1.5	133	.54	1.0	---	.20	1.8	116	.56
27	1.5	40	.16	1.1	63	.19	2.0	---	.80
28	1.5	12	.05	1.3	63	.22	1.4	---	.40
29	1.6	110	.48	1.3	---	.20	1.4	---	.40
30	1.7	130	.60	1.3	---	.20	1.8	---	.80
31	1.5	270	1.1	---	---	---	1.7	---	.80
TOTAL	43.75	---	160.70	45.7	---	15.58	53.33	---	24.16

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	1.8	---	1.0	2.1	---	2.0	1.9	---	5.0
2	1.5	---	.80	2.0	---	2.0	2.4	---	6.0
3	1.8	291	1.4	1.8	---	2.0	2.2	---	2.0
4	1.6	161	.70	2.0	374	2.0	1.9	260	1.3
5	1.9	152	.78	2.8	---	1.5	1.8	---	1.2
6	1.7	139	.64	3.0	---	1.5	1.7	320	1.5
7	1.2	---	.30	2.6	196	1.4	1.8	---	2.0
8	1.4	---	.40	2.0	---	1.5	1.8	---	2.0
9	1.5	103	.42	1.9	---	1.5	1.8	1000	4.8
10	1.5	125	.50	2.2	269	1.6	1.8	600	2.9
11	1.5	144	.58	1.8	---	1.5	1.9	990	5.1
12	1.5	170	.69	1.8	---	2.0	1.7	---	3.0
13	1.5	---	.70	1.9	---	2.5	1.6	585	1.6
14	1.5	211	.85	1.9	492	2.5	1.5	419	1.0
15	1.7	---	.90	1.9	---	2.5	1.6	---	1.5
16	1.9	---	.90	2.4	1100	7.1	1.6	475	2.0
17	2.0	170	.90	14	3220	285	1.6	300	1.3
18	2.1	---	1.0	18	3450	253	1.6	---	1.2
19	2.6	---	2.5	19	4860	353	1.6	---	1.2
20	2.1	400	2.2	29	6980	881	1.6	280	1.2
21	2.1	---	2.2	54	8800	1940	1.5	---	1.5
22	2.1	---	2.2	56	8560	1840	1.4	495	1.7
23	2.1	---	2.2	46	12000	1740	1.3	---	1.9
24	2.2	420	2.5	3.4	1560	17	1.3	540	1.9
25	2.1	---	2.5	1.8	---	15	1.3	540	1.9
26	2.1	---	2.0	1.8	---	15	1.4	772	2.9
27	2.1	---	2.0	2.0	---	15	1.5	252	1.0
28	2.1	360	2.0	1.9	2280	12	1.4	---	1.5
29	2.0	---	2.0	---	---	---	1.5	---	2.0
30	2.0	---	2.0	---	---	---	1.5	540	2.2
31	2.2	440	2.6	---	---	---	1.4	450	1.7
TOTAL	57.4	---	42.36	281.0	---	7401.1	50.9	---	68.0

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	1.4	---	2.0	1.7	280	1.3	1.6	128	.55
2	1.5	496	2.0	1.7	---	1.4	1.6	---	.50
3	1.4	381	1.4	1.8	---	1.4	1.6	---	.50
4	1.4	---	1.5	1.8	---	1.4	1.5	93	.48
5	1.4	---	2.0	1.7	296	1.4	1.5	---	.50
6	1.5	638	2.6	1.7	---	1.4	1.5	---	.40
7	1.7	440	2.0	1.8	---	1.3	1.5	---	.30
8	1.6	400	1.7	1.7	---	1.3	1.5	---	.20
9	1.6	---	1.5	1.7	280	1.3	1.4	32	.12
10	1.5	373	1.5	1.7	---	1.3	1.5	---	.15
11	1.4	---	1.5	1.8	---	2.0	1.4	---	.15
12	1.6	305	1.3	2.3	700	4.3	1.5	---	.15
13	1.4	271	1.0	2.2	---	3.0	1.4	36	.14
14	1.4	---	1.0	2.3	---	2.0	1.4	---	.10
15	1.5	284	1.2	1.9	328	1.7	1.5	---	.10
16	1.5	708	2.9	1.9	---	1.7	1.4	24	.09
17	1.5	---	2.0	1.9	---	2.0	1.4	---	.05
18	1.5	321	1.3	1.8	611	3.0	1.4	---	.05
19	1.5	---	2.0	1.9	---	3.5	1.4	15	.06
20	1.5	560	2.3	1.8	---	3.0	1.3	---	.06
21	1.4	400	1.5	1.5	---	2.5	1.3	---	.06
22	1.5	400	1.6	1.4	---	1.0	1.4	---	.07
23	1.5	---	1.4	1.4	191	.70	1.3	21	.07
24	1.5	---	1.2	1.3	152	.53	1.3	---	.06
25	1.5	277	1.1	1.5	---	.50	2.1	---	15
26	1.6	---	1.1	1.6	---	.50	1.6	---	1.0
27	1.6	285	1.2	1.5	---	.50	1.5	116	.47
28	1.6	---	1.3	1.6	---	.50	1.4	---	.40
29	1.7	---	1.3	1.6	110	.47	1.4	---	.30
30	1.7	---	1.3	1.7	---	.50	1.4	---	.30
31	---	---	---	1.7	---	.50	---	---	---
TOTAL	45.4	---	47.7	53.9	---	47.90	44.0	---	22.38

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	1.4	103	.39	.94	---	.10	1.3	61	.21
2	1.3	---	.30	.97	32	.08	1.3	---	.15
3	1.3	---	.30	1.1	---	.15	1.3	---	.10
4	1.3	106	.40	1.1	---	.20	1.3	---	.05
5	1.3	---	.40	1.0	99	.27	1.3	6	.02
6	1.3	---	.40	1.0	---	.20	1.3	---	.02
7	1.2	---	.30	.99	---	.20	1.3	---	.03
8	1.2	---	.20	1.5	2790	23	1.3	13	.04
9	1.2	36	.12	1.6	---	1.5	1.3	---	.04
10	1.2	---	.10	1.3	---	1.0	1.3	---	1.0
11	1.2	31	.10	1.3	450	1.6	3.1	2250	24
12	1.2	---	.10	1.2	---	.50	3.7	---	35
13	1.2	---	.15	1.6	2370	14	3.8	---	50
14	1.2	54	.17	1.5	118	.50	2.7	1200	8.7
15	1.2	---	.15	1.4	---	.30	2.2	---	2.0
16	1.2	---	.20	1.3	---	.20	2.0	---	.50
17	1.2	56	.18	1.4	---	1.0	1.9	94	.48
18	1.2	---	.20	1.6	550	2.8	1.9	22	.11
19	1.2	---	.20	1.4	---	.25	1.8	---	.10
20	1.1	57	.17	1.3	---	.20	2.0	---	.50
21	1.0	---	.10	1.3	---	.20	1.9	---	.40
22	1.1	---	.20	1.3	55	.19	1.9	76	.39
23	1.1	---	.20	1.3	---	.20	1.8	11	.05
24	1.3	2200	12	1.2	---	.15	1.8	---	.05
25	1.2	---	.30	4.2	11200	395	1.8	14	.07
26	1.2	---	.20	1.4	---	4.0	1.9	---	.10
27	1.2	---	.20	1.1	---	.20	3.4	2180	28
28	1.2	---	.20	1.3	880	3.1	4.7	2140	45
29	1.4	93	.35	2.4	1700	26	3.8	---	20
30	1.1	---	.20	1.5	---	2.0	2.5	---	5.0
31	1.0	---	.10	1.3	---	1.0	---	---	---
TOTAL	37.4	---	18.58	43.80	---	480.09	63.6	---	222.11
YEAR	820.18		8550.66						

09306300 WHITE RIVER ABOVE RANGELY, CO

LOCATION.--Lat 40°06'26", long 108°42'44", in SW¼SE¼ sec.27, T.2 N., R.101 W., Rio Blanco County, Hydrologic Unit 14050007, on left bank 80 ft (24 m) upstream from Taylor Draw and 4.7 mi (7.6 km) east of Rangely.

DRAINAGE AREA.--2,773 mi^2 (7,182 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1972 to August 1982 (discontinued).

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,270 ft (1,606 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation of about 31,900 acres (129 km^2).

AVERAGE DISCHARGE.--9 years (water years 1973-81), 633 ft^3/s (17.93 m^3/s), 458,600 acre-ft/yr (565 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,260 ft^3/s (121 m^3/s) June 9, 1975, gage height, 7.02 ft (2.140 m); maximum gage height, 12.33 ft (3.758 m) Mar. 3, 1982 (backwater from ice); minimum daily discharge, 62 ft^3/s (1.76 m^3/s) July 13, 14, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,640 ft^3/s (74.8 m^3/s) at 1800 May 28, gage height, 5.75 ft (1.753 m), maximum gage height, 12.33 ft (3.758 m) at 0700 March 3 (backwater from ice); no peak above base of 2,800 ft^3/s (79 m^3/s); minimum daily, 184 ft^3/s (5.21 m^3/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	298	418	400	400	430	450	469	1000	2020	2100		
2	292	394	514	400	390	510	488	1200	2000	2100		
3	292	406	382	390	380	520	479	1420	1890	1990		
4	486	424	418	340	300	350	442	1670	1900	1810		
5	848	418	400	370	310	400	403	1850	1930	1650		
6	465	418	400	420	360	390	365	1590	2080	1610		
7	400	418	400	400	310	380	375	1440	1850	1560		
8	412	412	394	350	400	370	416	1360	2040	1300		
9	458	406	394	310	430	406	384	1450	1910	1270		
10	458	400	370	420	510	470	382	1510	2060	1350		
11	521	376	358	460	460	440	399	1550	1900	1200		
12	880	376	352	450	530	606	421	1470	1810	1160		
13	605	394	352	377	620	499	544	1540	2160	1060		
14	514	406	352	400	620	422	542	1490	2180	1040		
15	472	406	352	420	620	460	582	1330	2130	1020		
16	672	400	364	430	680	521	615	1270	1830	944		
17	626	400	358	450	700	498	606	1230	2030	888		
18	486	406	340	440	660	440	583	1260	2200	872		
19	437	412	298	430	640	425	623	1350	2060	848		
20	412	418	376	420	640	443	621	1480	2110	800		
21	400	370	382	430	620	435	584	1480	2090	752		
22	394	400	388	380	600	390	551	1580	2080	752		
23	382	424	370	350	580	353	560	1770	2050	728		
24	370	424	184	470	470	393	625	2040	1990	704		
25	364	424	232	460	430	434	658	2130	2000	736		
26	382	418	274	470	430	419	780	2070	1930	768		
27	370	410	352	480	450	444	855	2260	1900	776		
28	370	430	346	390	450	463	873	2470	1920	896		
29	370	376	360	470	---	468	867	2500	1990	1050		
30	424	400	400	390	---	473	958	2510	2030	888		
31	458	---	410	450	---	464	---	2250	---	744		
TOTAL	14318	12184	11272	12817	14020	13736	17050	51520	60070	35366		
MEAN	462	406	364	413	501	443	568	1662	2002	1141		
MAX	880	430	514	480	700	606	958	2510	2200	2100		
MIN	292	370	184	310	300	350	365	1000	1810	704		
AC-FT	28400	24170	22360	25420	27810	27250	33820	102200	119100	70150		

CAL YR 1981 TOTAL 165128 MEAN 452 MAX 1810 MIN 178 AC-FT 327500

09306300 WHITE RIVER ABOVE RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to September 1982 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT										
02...	1100	298	690	675	8.1	13.0	8.6	265	68	23
28...	1215	382	700	640	8.3	7.5	9.3	275	69	25
DEC										
07...	0915	400	660	670	8.2	.5	11.8	250	64	22
FEB										
17...	1200	700	630	594	8.1	1.0	11.3	260	66	23
MAR										
23...	1210	310	880	740	8.3	6.0	11.6	310	73	31
APR										
21...	1200	565	550	576	8.5	5.5	10.8	232	60	20
JUN										
09...	1100	1910	325	338	8.2	13.0	8.9	148	41	11
AUG										
04...	1110	784	605	609	8.5	20.0	7.4	255	66	22
SEP										
22...	1420	465	630	626	--	18.0	8.5	250	64	22

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT										
02...	46	1.3	1.5	160	170	24	.2	13	442	.60
28...	58	1.6	1.8	170	170	31	.3	14	471	.64
DEC										
07...	51	1.4	1.4	170	150	23	.2	12	426	.58
FEB										
17...	54	1.5	2.5	180	170	19	.2	15	458	.62
MAR										
23...	70	1.8	1.7	180	230	33	.3	13	560	.76
APR										
21...	37	1.1	1.4	150	130	14	.1	14	367	.50
JUN										
09...	12	.4	1.2	112	48	4.9	.2	12	198	.27
AUG										
04...	31	.9	2.1	190	130	11	.2	16	393	.53
SEP										
22...	38	1.1	1.5	163	140	13	.2	14	391	.53

09306300 WHITE RIVER ABOVE RANGELY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
OCT										
02...	356	.16	--	.130	.36	.49	.65	.010	40	< 10
28...	486	< .09	--	.040	.46	.50	--	.030	40	16
DEC										
07...	460	< .10	--	.070	--	< .21	--	.050	50	< 10
FEB										
17...	866	.22	--	.160	.84	1.00	1.2	.040	40	29
MAR										
23...	469	< .10	--	.090	.31	.40	--	.020	70	6
APR										
21...	560	< .10	< .10	.080	.65	.73	--	.020	40	24
JUN										
09...	1020	.10	--	.080	1.1	1.20	1.3	.130	20	11
AUG										
04...	832	< .10	--	.120	1.5	1.60	--	.220	40	22
SEP										
22...	491	< .10	--	< .060	--	2.30	--	.060	50	21

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)
OCT								
28...	620	1	100	< 10	< 1	< 10	< 1	6
JUN								
09...	2000	1	100	< 10	< 1	< 10	2	9

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
OCT								
28...	5	10	40	.0	2	1	1	20

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)
OCT			
28...	1.9	1.6	> .01
FEB			
17...	4.1	4.7	--
JUN			
09...	7.0	4.2	< .01
SEP			
22...	--	2.6	--

09306300 WHITE RIVER ABOVE RANGELY, CO--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
02...	1030	--	51	--	--
02...	1100	298	51	41	--
03...	1850	316	104	89	--
11...	1810	--	1350	--	--
18...	1320	479	489	632	--
25...	1230	370	155	155	--
28...	1215	382	89	92	--
NOV					
02...	1650	394	198	211	--
08...	1245	412	142	158	--
15...	1250	412	50	56	--
22...	1240	430	75	87	--
29...	1235	376	63	64	--
DEC					
17...	1515	352	75	71	--
FEB					
26...	1800	430	1400	1630	--
MAR					
23...	1210	310	86	72	--
31...	1730	486	125	164	--
APR					
14...	1840	528	341	486	--
21...	1145	563	100	152	--
28...	1850	888	667	1600	--
MAY					
07...	0650	1470	539	2140	--
JUL					
18...	1940	848	72	165	--
25...	1235	712	129	248	--
AUG					
02...	1805	672	127	230	--
04...	1110	784	396	838	54
SEP					
22...	1420	465	123	154	--

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT

LOCATION.--Lat 40°00'50", long 109°04'48", in NW¼NE¼NE¼ sec.27, T.9 S., R.25 E., Uintah County, Hydrologic Unit 14050007, on right bank 900 ft (270 m) upstream from small right bank tributary, 2.7 mi (4.3 km) downstream from Colorado-Utah State line, and 7.5 mi (12.1 km) upstream from Evacuation Creek.

DRAINAGE AREA.--3,680 mi^2 (9,530 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,030 ft (1,533 m) from topographic map.

REMARKS.--Water-discharge records good except those for winter period, which are fair. Diversions for irrigation of about 31,900 acres (129 km^2) above station.

AVERAGE DISCHARGE.--6 years, 634 ft^3/s (17.95 m^3/s), 459,300 acre-ft/yr (566 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,470 ft^3/s (127 m^3/s) May 30, 1979, gage height, 7.20 ft (2.195 m); minimum, 10 ft^3/s (0.28 m^3/s) July 2, 3, 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,720 ft^3/s (77.0 m^3/s) May 29, gage height, 5.81 ft (1.771 m); minimum daily, 157 ft^3/s (4.45 m^3/s) Dec. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	293	458	300	350	400	1000	388	882	2280	2170	664	459
2	302	425	170	340	400	1100	436	1010	2170	2200	624	432
3	305	423	210	180	400	1250	444	1290	2110	2140	672	414
4	509	431	190	200	390	1000	446	1460	2050	1930	745	393
5	1610	434	390	220	340	711	417	1760	1920	1790	686	428
6	647	432	400	220	300	588	428	1650	1990	1710	631	598
7	464	428	450	210	250	475	430	1450	2080	1630	577	563
8	410	419	430	210	240	473	430	1350	1990	1460	562	461
9	502	427	410	260	240	449	413	1330	2060	1340	727	443
10	474	410	450	270	360	504	405	1410	2150	1380	606	633
11	736	397	450	200	420	471	414	1500	2160	1340	584	568
12	1340	390	470	160	420	520	419	1450	2010	1210	928	778
13	871	391	460	300	470	555	474	1480	2090	1150	679	735
14	560	399	460	400	410	493	567	1510	2150	1060	763	969
15	584	400	440	410	450	474	560	1360	2170	1060	732	732
16	833	393	400	420	520	469	607	1260	2160	992	641	647
17	712	390	380	440	620	471	639	1200	2030	926	587	636
18	548	394	350	450	640	464	620	1190	2150	868	572	607
19	481	403	360	460	750	464	629	1260	2270	847	656	583
20	452	405	330	460	850	436	632	1410	2210	810	595	594
21	430	383	360	440	740	418	623	1480	2190	764	563	571
22	418	380	360	420	900	397	614	1470	2200	738	558	546
23	410	408	350	400	950	367	619	1660	2210	712	731	522
24	397	411	330	420	960	379	628	1870	2160	716	516	519
25	389	415	210	450	1000	374	650	2120	2110	676	507	517
26	408	415	300	470	950	375	700	2060	2120	716	486	540
27	394	390	390	460	950	395	760	2210	2080	706	495	700
28	390	400	370	440	970	415	820	2440	2020	726	480	1000
29	395	375	360	430	---	416	800	2560	2050	1050	510	1100
30	428	350	350	400	---	424	838	2400	2130	908	488	1000
31	520	---	350	400	---	427	---	2420	---	748	465	---
TOTAL	17212	12176	11230	10890	16290	16754	16850	49902	63470	36473	19030	18688
MEAN	555	406	362	351	582	540	562	1610	2116	1177	614	623
MAX	1610	458	470	470	1000	1250	838	2560	2280	2200	928	1100
MIN	293	350	170	160	240	367	388	882	1920	676	465	393
AC-FT	34140	24150	22270	21600	32310	33230	33420	98980	125900	72340	37750	37070

CAL YR 1981 TOTAL 174005 MEAN 477 MAX 1740 MIN 142 AC-FT 345100
WTR YR 1982 TOTAL 288965 MEAN 792 MAX 2560 MIN 160 AC-FT 573200

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1976 to current year.
WATER TEMPERATURES: October 1976 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1976 to current year.

INSTRUMENTATION.--Specific conductance and temperature recorder since October 1976.

REMARKS.--Sediment loads computed on U.S.P.S. 69 pumping sediment sampler concentrations for days where concentrations are given.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded (more than 20-percent missing record), 1,570 micromhos July 22, 1977; minimum recorded, 120 micromhos April 29, 1981.
WATER TEMPERATURES: Maximum recorded (more than 20-percent missing record), 31.0°C Aug. 9, 1978; minimum, 0.0°C on many days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 61,000 mg/L Sept. 8, 1978; minimum daily mean 50 mg/L Sept. 7, 1978.
SEDIMENT LOADS: Maximum daily, 412,000 tons (374,000 tonnes) Sept. 8, 1978; minimum daily, 1.0 ton (0.91 tonne) July 2, 3, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum observed, 920 micromhos Mar. 25; minimum recorded, 337 micromhos May 29.
WATER TEMPERATURES: Maximum recorded, 26.5°C Aug. 27; minimum, 0.0°C several days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 25,300 mg/L July 29; minimum daily mean, 120 mg/L Oct. 3.
SEDIMENT LOADS: Maximum daily, 71,700 tons (65,000 tonnes) July 29; minimum daily, 99 tons (90 tonnes) Oct. 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT												
06...	1500	278	800	--	8.1	13.0	8.8	--	290	69	28	69
NOV												
21...	1400	406	880	877	7.8	.5	11.7	--	290	71	28	73
FEB												
19...	1300	554	770	757	7.5	.0	11.9	--	250	61	23	65
MAR												
18...	1200	364	950	884	7.4	8.5	--	--	300	71	30	78
APR												
16...	1530	569	760	741	7.7	16.0	--	--	260	63	24	55
JUN												
02...	1600	1530	460	437	7.6	16.5	7.5	24	170	46	14	21
JUL												
08...	1200	340	760	745	7.9	23.0	7.1	--	280	66	27	54
14...	1200	556	780	767	8.0	23.0	6.6	--	290	74	26	50
AUG												
25...	1015	200	850	815	8.6	20.5	7.6	40	290	69	29	66
SEP												
03...	1030	227	--	1090	7.7	--	7.1	--	350	87	32	71
24...	1330	305	710	667	8.1	12.5	7.6	43	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT												
06...	1.8	1.9	--	--	200	44	.3	--	11	525	.71	394
NOV												
21...	1.9	2.3	210	--	170	37	.5	--	15	523	.71	573
FEB												
19...	1.8	1.6	160	--	160	37	.3	--	12	457	.62	684
MAR												
18...	2.0	1.7	190	--	230	41	.3	--	11	577	.78	567
APR												
16...	1.5	1.7	160	--	170	27	.2	--	12	449	.61	690
JUN												
02...	.7	1.6	110	--	70	9.2	.1	--	12	241	.33	996
JUL												
08...	1.4	1.8	160	--	180	37	.2	--	13	476	.65	437
14...	1.3	2.4	190	--	160	33	.2	--	15	475	.65	713
AUG												
25...	1.8	2.2	170	--	200	39	.3	--	13	521	.71	281
SEP												
03...	1.8	4.1	190	--	250	46	.1	--	15	620	.84	380
24...	--	--	--	.1	--	--	--	.30	--	--	--	--

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT												
06...	--	--	.00	--	--	--	--	.010	.000	50	<10	2
NOV												
21...	--	--	.00	--	--	--	--	.000	--	70	--	--
FEB												
19...	--	--	.15	--	--	--	--	.010	--	50	--	--
MAR												
18...	--	--	.00	--	--	--	--	.010	--	60	--	--
APR												
16...	--	--	.04	--	--	--	--	.040	.010	40	100	9
JUN												
02...	--	--	.15	.130	--	--	.270	.020	--	20	--	--
JUL												
08...	--	--	.09	--	--	--	--	--	.070	50	40	4
14...	--	--	.12	--	--	--	--	.010	--	50	--	--
AUG												
25...	.01	.010	.02	.060	.62	.68	--	.020	.000	60	<10	4
SEP												
03...	--	--	.00	--	--	--	--	.020	--	100	--	--
24...	--	--	--	.030	--	--	.030	--	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)
OCT												
06...	--	0	--	1	--	--	--	--	--	--	--	<1
JUN												
02...	--	20	--	1	--	--	--	--	--	--	--	1
AUG												
25...	1600	10	2	2	7	--	80	0	<1	<1	0	<1
SEP												
24...	--	0	--	1	--	59	--	--	--	--	--	<1

DATE	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)
OCT												
06...	--	--	20	--	--	--	2	--	--	--	--	0
JUN												
02...	--	--	0	--	--	--	6	--	--	--	--	2
AUG												
25...	1	0	10	3	10	8	5	15	2200	3200	4	0
SEP												
24...	--	--	0	--	--	--	4	--	--	--	--	7

DATE	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)
OCT											
06...	--	--	--	--	--	--	.0	--	--	--	--
JUN											
02...	--	--	--	--	--	--	.0	--	--	--	--
AUG											
25...	10	20	24	60	200	.0	.0	.02	4	<10	<1
SEP											
24...	--	--	17	--	--	--	.0	--	--	<10	--

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
OCT											
06...	--	--	--	--	1	--	--	--	--	<3	--
JUN											
02...	--	--	--	--	1	--	--	--	--	30	--
AUG											
25...	4	4	10	1	1	0	--	.0	20	<3	17
SEP											
24...	--	--	--	--	1	--	810	1.0	--	9	--

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	ALGAL GROWTH POTEN-TIAL, BOTTLE TEST (MG/L)
AUG						
25...	1015	5.1	.00	0	.00	.3
SEP						
24...	1330	4.9	--	0	--	--

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
NOV											
21...	1415	451	214	261	20	25	42	77	88	98	100
MAR											
31...	1410	410	362	401	62	70	82	96	97	100	--
APR											
29...	1115	993	1210	3240	19	27	42	75	91	100	--
JUN											
02...	1630	1340	1340	4850	24	28	38	72	91	100	--
AUG											
17...	1130	326	3460	3050	55	74	97	99	99	99	100
SEP											
03...	1100	227	1810	1110	50	65	94	97	98	100	--

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	771	660	660	620	620	620	820	420	340	500	846	913
2	788	640	640	620	620	620	820	420	400	500	841	909
3	797	640	660	620	640	640	820	460	380	500	839	863
4	802	640	640	620	640	660	840	520	380	500	843	747
5	816	640	640	620	660	660	840	480	380	500	852	712
6	844	640	640	720	660	680	840	440	360	460	856	723
7	820	640	660	780	660	660	840	420	360	460	856	740
8	800	640	660	740	660	660	860	440	340	688	849	708
9	780	640	640	700	640	660	840	440	340	683	840	674
10	760	660	640	700	640	660	820	460	380	711	856	659
11	760	680	620	700	660	680	820	460	400	726	855	650
12	760	660	620	720	640	700	800	480	380	732	843	621
13	760	680	640	720	660	700	720	480	420	765	818	625
14	760	680	660	740	640	700	680	480	460	762	774	641
15	720	680	620	740	640	680	680	480	480	701	816	654
16	720	680	620	720	620	680	680	500	500	698	816	675
17	720	680	620	700	600	700	600	500	520	686	841	692
18	700	680	600	680	580	700	560	500	540	708	840	702
19	700	680	600	660	640	780	540	500	520	704	827	706
20	700	700	600	640	680	880	520	500	500	681	814	710
21	680	740	600	640	640	880	540	520	480	694	820	707
22	680	820	600	640	620	860	500	520	480	715	817	698
23	680	760	600	660	600	860	520	500	480	775	827	699
24	660	720	600	680	580	840	560	480	480	800	830	678
25	660	700	620	680	580	860	560	480	480	747	829	631
26	660	680	620	660	600	840	560	500	500	771	834	655
27	660	700	620	640	600	860	500	500	500	802	843	659
28	640	660	620	640	600	880	500	500	500	836	860	662
29	640	660	620	640	---	840	460	480	500	851	870	668
30	640	680	620	620	---	840	460	440	500	849	875	688
31	640	---	620	620	---	820	---	380	---	856	904	---
MEAN	726	679	626	674	629	745	670	474	443	689	840	702

WTR YR 1981 MEAN 659 MAX 913 MIN 340

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.5	13.5	7.5	4.0	.5	.5	1.0	.5	1.5	.5	7.5	4.0
2	18.0	13.5	7.5	5.0	.5	.5	.5	.5	1.0	.5	6.0	4.5
3	17.5	12.5	7.0	4.5	1.5	.5	1.0	.5	1.0	.5	7.0	3.5
4	17.0	12.5	7.0	4.0	3.5	1.5	2.0	.5	1.0	.5	9.0	4.5
5	17.0	12.5	8.0	4.5	3.5	2.5	3.0	1.5	1.5	.5	8.0	5.0
6	17.0	12.5	8.0	5.0	4.0	3.0	2.0	.5	1.0	.5	6.5	5.0
7	17.0	12.5	9.0	5.5	3.5	2.5	1.0	.5	1.5	.5	5.5	4.0
8	17.0	12.5	9.0	6.0	2.5	1.0	.5	.5	1.0	.5	7.5	3.5
9	16.5	12.5	8.5	5.5	1.5	.5	.5	.5	2.0	.5	9.0	4.0
10	16.0	12.0	8.0	5.0	.5	.5	.5	.5	.5	.5	9.0	5.0
11	15.5	11.0	7.0	5.0	.5	.5	.5	.5	.5	.5	7.5	5.0
12	13.0	11.5	7.5	6.0	.5	.5	.5	.5	1.5	.5	8.5	5.5
13	15.0	11.0	7.0	5.5	.5	.5	.5	.5	2.5	.5	8.0	5.0
14	13.5	11.5	5.5	4.0	.5	.5	.5	.5	2.0	.5	9.0	5.0
15	12.0	9.5	4.0	2.0	.5	.5	.5	.5	2.5	.5	10.5	5.5
16	9.5	7.5	2.0	.5	.5	.5	.5	.5	3.0	.5	9.0	6.5
17	9.0	6.5	.5	.5	.5	.5	1.0	.5	2.5	.0	9.0	5.5
18	10.0	7.0	.5	.5	.5	.5	1.0	.5	2.5	.0	10.0	5.5
19	10.0	7.0	.5	.5	.5	.5	1.0	.5	1.5	.0	10.0	6.0
20	10.5	7.0	.5	.5	.5	.5	1.0	.5	1.0	.0	9.0	6.5
21	10.5	7.0	.5	.5	.5	.5	1.0	.5	2.5	.0	8.0	5.5
22	10.5	8.0	.5	.5	1.0	.5	1.0	.5	2.5	.0	10.5	5.0
23	9.0	6.0	.5	.5	1.5	.5	1.0	.5	3.0	.5	12.5	7.0
24	8.0	5.0	1.0	.5	1.0	.5	.5	.5	3.5	.0	11.5	8.5
25	7.5	4.5	.5	.5	2.5	.5	1.0	.5	3.0	.0	11.0	7.5
26	6.0	5.0	.5	.5	3.0	1.0	.5	.5	.5	.0	11.5	7.5
27	6.5	5.0	.5	.5	3.0	1.0	.5	.5	6.0	.5	9.5	7.0
28	6.0	3.5	.5	.5	3.5	2.0	1.5	.5	7.5	3.0	8.5	7.0
29	5.5	2.5	.5	.5	3.0	1.0	1.5	.5	---	---	11.0	5.5
30	6.0	3.0	.5	.5	2.0	.5	1.0	.5	---	---	9.5	6.0
31	6.5	3.5	---	---	1.5	.5	.5	.5	---	---	9.0	4.0
MONTH	18.5	2.5	9.0	.5	4.0	.5	3.0	.5	7.5	.0	12.5	3.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.0	5.5	20.0	15.5	19.5	16.5	24.0	20.5	26.5	22.0	22.0	17.5
2	11.0	6.0	18.5	16.0	19.0	16.0	24.5	19.0	27.0	21.0	22.5	18.5
3	9.5	7.0	16.0	12.5	18.5	16.5	25.5	20.5	27.0	22.0	23.0	17.5
4	10.0	5.5	14.5	11.0	19.0	16.5	25.0	20.0	27.5	21.5	23.0	18.5
5	11.0	5.5	15.5	11.5	20.0	16.5	26.5	20.5	27.0	20.5	20.5	17.0
6	12.0	6.5	15.0	12.5	20.0	17.5	26.0	21.5	27.5	20.5	18.5	16.0
7	11.0	9.0	14.5	10.5	19.5	17.5	26.5	21.5	27.5	20.5	20.5	16.5
8	12.5	8.0	12.5	11.0	20.5	17.5	27.5	20.5	26.5	20.0	21.5	14.5
9	14.5	8.5	14.0	10.0	20.5	18.0	25.5	22.0	26.5	20.0	21.5	17.5
10	16.0	10.5	16.0	11.0	21.0	18.0	26.5	20.5	21.5	18.5	20.5	18.5
11	15.5	11.5	15.5	12.5	21.0	17.5	25.0	21.5	21.0	18.0	21.5	14.0
12	15.0	10.0	16.0	12.0	21.5	18.0	25.5	22.0	23.5	18.0	18.5	15.5
13	17.0	11.5	16.5	11.5	20.0	17.5	25.0	20.0	21.0	19.0	21.5	17.0
14	17.0	12.0	18.0	12.5	17.0	15.0	26.0	22.0	22.5	17.0	21.5	17.5
15	15.5	13.5	17.5	14.0	18.0	13.0	26.5	21.5	21.5	18.5	21.5	17.0
16	16.5	12.0	16.5	13.5	19.0	14.0	24.0	21.5	23.0	16.5	21.5	17.0
17	18.5	13.5	15.0	13.0	20.0	15.0	25.5	19.5	24.0	18.5	20.5	16.0
18	18.0	14.0	18.5	13.0	20.5	16.0	26.0	21.0	25.0	19.0	20.0	15.5
19	16.5	13.5	17.5	14.5	22.0	16.5	25.0	21.0	25.0	20.0	20.0	15.0
20	16.5	12.5	16.5	14.0	23.5	17.5	25.0	19.5	25.5	19.5	20.0	16.0
21	14.0	12.5	13.5	11.5	23.5	18.5	25.0	19.0	22.5	18.5	20.5	16.0
22	15.5	11.0	13.5	10.5	25.0	18.0	25.5	20.0	23.5	17.5	22.0	17.0
23	17.0	11.5	16.5	11.0	24.5	20.0	24.0	19.5	24.5	18.5	21.0	16.0
24	18.5	13.0	18.5	14.0	26.0	19.5	23.5	18.5	24.5	19.0	20.5	17.0
25	19.0	14.5	19.0	14.5	27.0	20.5	25.0	19.5	26.0	19.5	18.0	15.0
26	18.5	15.0	19.5	16.0	27.5	22.0	24.0	19.0	25.5	20.0	17.0	13.0
27	18.0	14.5	20.0	16.0	24.0	21.0	22.5	17.5	26.0	20.5	17.5	12.5
28	17.5	14.0	19.0	16.0	24.5	20.0	23.5	18.5	26.0	20.5	17.5	13.0
29	18.5	14.0	19.5	16.5	26.0	20.0	24.5	19.0	25.0	19.5	16.5	13.5
30	19.5	15.0	19.0	16.5	26.0	21.0	25.0	20.5	21.5	16.5	18.0	13.5
31	---	---	19.0	16.5	---	---	26.5	21.0	22.0	17.0	---	---
MONTH	19.5	5.5	20.0	10.0	27.5	13.0	27.5	17.5	27.5	16.5	23.0	12.5
YEAR	27.5	.0										

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	346	91	85	446	203	244	410	224	248
2	339	62	57	440	182	216	462	202	252
3	322	79	69	433	182	213	395	199	212
4	305	66	54	431	163	190	373	198	199
5	288	64	50	427	176	203	378	198	202
6	280	92	70	428	173	200	394	205	218
7	271	119	87	424	166	190	386	192	200
8	271	130	95	419	166	188	360	189	184
9	276	127	95	415	185	207	340	196	180
10	269	126	92	411	186	206	310	202	169
11	276	132	98	402	144	156	350	208	197
12	285	146	112	402	142	154	353	175	167
13	314	121	103	414	180	201	380	139	143
14	388	428	448	456	406	500	414	108	121
15	606	1040	1700	455	198	243	366	107	106
16	605	870	1420	388	195	204	392	115	122
17	499	636	857	351	212	201	410	114	126
18	522	544	767	390	241	254	420	105	119
19	522	522	736	364	225	221	420	113	128
20	498	444	597	376	220	223	420	112	127
21	487	372	489	370	224	224	400	111	120
22	479	342	442	390	237	250	410	115	127
23	459	286	354	403	223	243	380	107	110
24	457	252	311	409	212	234	390	130	137
25	444	274	328	401	212	230	410	99	110
26	431	272	317	370	218	218	393	91	97
27	447	276	333	380	209	214	397	82	88
28	461	244	304	370	203	203	397	85	91
29	450	198	241	350	215	203	389	78	82
30	438	304	360	370	228	228	385	78	81
31	440	204	242	---	---	---	368	101	100
TOTAL	12475	---	11313	12085	---	6661	12052	---	4563

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	365	120	118	373	390	393	355	326	312
2	370	128	128	350	400	378	352	302	287
3	385	129	134	305	419	345	352	285	271
4	393	102	108	232	386	242	354	285	272
5	381	107	110	280	410	310	341	270	249
6	395	109	116	317	418	358	339	250	229
7	388	104	109	334	415	374	348	239	225
8	320	105	91	360	410	399	366	243	240
9	320	113	98	342	425	392	350	229	216
10	320	121	105	411	470	522	345	222	207
11	320	125	108	329	443	394	333	215	193
12	320	145	125	230	435	270	333	209	188
13	318	172	148	257	447	310	330	205	183
14	333	195	175	472	480	612	336	205	186
15	323	195	170	451	491	598	325	207	182
16	343	235	218	488	479	631	324	205	179
17	391	299	316	502	475	644	333	205	184
18	442	320	382	485	468	613	357	191	184
19	452	339	414	462	480	599	391	335	354
20	436	338	398	457	475	586	350	250	236
21	461	373	464	441	468	557	340	293	269
22	445	375	451	456	463	570	350	252	238
23	411	405	449	425	455	522	350	200	189
24	411	415	461	423	462	528	350	258	244
25	414	409	457	426	402	462	398	470	505
26	444	392	470	429	391	453	412	384	427
27	388	392	411	410	380	421	417	573	645
28	332	393	352	371	352	353	414	464	519
29	413	422	471	---	---	---	388	393	412
30	403	410	446	---	---	---	414	449	502
31	432	408	476	---	---	---	408	498	656
TOTAL	11869	---	8479	10818	---	12836	11235	---	9183

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	516	343	478	972	1040	2730	1530	1760	7270
2	512	377	521	993	1100	2950	1550	1690	7070
3	515	594	826	1010	1550	4230	1520	1660	6810
4	448	445	538	1390	6150	23100	1620	1820	7960
5	444	421	505	1260	2970	10100	1640	1680	7440
6	393	502	533	1060	1350	3860	1560	1530	6440
7	397	410	439	999	936	2520	1560	1660	6990
8	406	405	444	922	724	1800	1630	2140	9420
9	410	264	292	789	580	1240	1740	2560	12000
10	385	221	230	736	502	998	1670	2390	10800
11	402	218	237	666	460	827	1570	1790	7590
12	486	341	447	623	353	594	1360	1240	4550
13	516	439	612	614	318	527	1140	1160	3570
14	516	396	552	569	299	459	954	903	2330
15	520	338	475	503	276	375	819	672	1490
16	570	415	639	460	248	308	743	493	989
17	583	470	740	481	227	295	641	462	800
18	626	700	1180	551	260	387	558	488	735
19	663	785	1410	569	495	760	492	488	648
20	714	875	1690	477	355	457	470	408	518
21	822	1410	3130	486	260	341	411	357	396
22	717	765	1480	538	254	369	370	358	358
23	694	490	918	560	315	476	343	338	313
24	653	375	661	628	321	544	321	303	263
25	671	430	779	605	308	503	293	284	225
26	757	740	1510	662	371	663	265	250	179
27	882	1360	3240	774	583	1220	278	4350	3270
28	951	1560	4010	899	1570	3810	267	4200	3030
29	929	1150	2880	1160	2170	6800	364	837	823
30	938	978	2480	1380	1360	5070	460	618	768
31	---	---	---	1400	1890	7140	---	---	---
TOTAL	18036	---	33876	24736	---	85453	28139	---	115045

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	385	346	360	282	285	217	244	2410	1590
2	360	440	428	263	290	206	243	1570	1030
3	443	1820	2180	222	301	180	233	1700	1070
4	481	705	916	191	288	149	224	784	474
5	469	405	513	177	285	136	240	480	311
6	423	316	361	171	244	113	334	1100	992
7	381	278	286	158	153	65	294	870	691
8	347	236	221	148	138	55	378	1280	1310
9	318	246	211	146	150	59	324	1010	884
10	252	202	137	142	120	46	361	1720	1680
11	306	292	241	153	130	54	364	1040	1020
12	435	7050	8280	173	193	90	479	5800	7500
13	481	13500	17500	263	2880	2050	377	3060	3110
14	527	2400	3410	318	4380	3760	396	2540	2720
15	477	351	452	301	1130	918	360	1690	1640
16	387	360	376	340	1500	1380	351	1080	1020
17	347	312	292	321	2450	2120	344	630	585
18	348	324	304	307	990	821	326	580	511
19	390	357	376	279	749	564	319	470	405
20	399	350	377	259	640	448	340	510	468
21	344	345	320	244	536	353	337	470	428
22	313	318	269	260	516	362	336	377	342
23	262	296	209	265	522	373	341	351	323
24	278	1120	841	243	445	292	309	244	204
25	334	4960	4470	201	386	209	291	109	86
26	368	5070	5040	204	343	189	300	102	83
27	467	4220	5320	208	350	197	291	122	96
28	374	920	929	186	400	201	287	108	84
29	339	432	395	205	579	320	278	112	84
30	297	314	252	341	4910	4520	288	132	103
31	282	323	246	380	3560	3650	---	---	---
TOTAL	11614	---	55512	7351	---	24097	9589	---	30844
YEAR	169999		397862						

09339900 EAST FORK SAN JUAN RIVER ABOVE SAND CREEK, NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°23'23", long 106°50'26", Archuleta County, Hydrologic Unit 14080101, on right bank 0.3 mi (0.5 km) upstream from Sand Creek, 4.0 mi (6.4 km) upstream from West Fork San Juan River, and 13 mi (21 km) northeast of Pagosa Springs.

DRAINAGE AREA.--64.1 mi² (166.0 km²).

PERIOD OF RECORD.--October 1956 to current year. Prior to October 1959, published as San Juan River above Sand Creek, near Pagosa Springs.

REVISED RECORDS.--WSP 1713: 1957.

GAGE.--Water-stage recorder. Altitude of gage is 8,900 ft (2,713 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Diversions above station for irrigation of about 500 acres (2.0 km²) of hay meadows above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--26 years, 84.7 ft³/s (2.399 m³/s), 61,360 acre-ft/yr (75.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,260 ft³/s (64.0 m³/s) Sept. 14, 1970, gage height, 6.75 ft (2.057 m), from rating curve extended above 460 ft³/s (13 m³/s), on basis of slope-area measurement at gage height 6.13 ft (1.868 m); minimum daily determined, 3.4 ft³/s (0.096 m³/s) Dec. 26, 1958.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1885 occurred Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 505 ft³/s (14.3 m³/s) at 2100 May 29, gage height, 4.53 ft (1.381 m), only peak above base of 500 ft³/s (14 m³/s); minimum daily, 8.5 ft³/s (0.24 m³/s) Feb. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	38	16	12	9.5	14	24	320	410	342	78	71
2	42	39	15	11	9.5	15	26	352	410	312	73	62
3	71	38	16	10	9.5	15	26	435	405	268	69	57
4	50	38	17	11	9.0	13	34	420	380	248	63	60
5	46	36	18	11	8.5	12	42	400	390	224	56	73
6	42	36	17	12	8.5	11	42	316	352	200	55	57
7	40	39	15	12	9.0	12	37	248	338	172	54	57
8	44	37	15	11	9.5	13	35	240	352	151	53	57
9	43	35	16	11	9.5	14	37	248	347	165	52	57
10	40	33	18	12	9.5	15	42	248	347	168	49	52
11	48	32	18	11	9.0	18	58	252	347	168	55	72
12	68	31	18	12	9.0	24	128	236	380	157	50	130
13	86	30	17	11	9.0	22	145	196	410	157	48	143
14	88	30	15	10	9.0	22	176	154	415	145	63	148
15	94	29	14	10	9.0	22	186	137	380	127	58	190
16	124	28	15	11	9.5	20	172	127	342	120	69	268
17	94	27	12	10	9.0	20	151	127	365	132	56	296
18	83	26	13	11	9.0	19	157	143	390	115	54	216
19	79	20	14	11	9.5	18	148	190	425	111	52	204
20	77	20	15	11	10	17	132	228	334	103	54	338
21	74	21	15	10	12	16	105	304	312	92	53	288
22	67	22	14	9.5	13	15	86	347	316	87	82	240
23	63	21	11	9.5	15	15	82	292	338	79	104	193
24	61	22	10	9.5	15	16	73	288	356	76	136	159
25	57	22	11	9.5	14	18	73	308	365	78	172	132
26	52	21	13	10	13	20	76	360	356	76	165	111
27	52	18	11	10	13	20	82	405	356	76	151	111
28	50	19	12	10	14	22	117	365	375	89	127	107
29	48	21	12	10	---	24	172	430	375	103	103	95
30	46	21	13	10	---	18	232	450	352	115	89	151
31	40	---	13	10	---	22	---	410	---	87	80	---
TOTAL	1892	850	449	329.0	293.0	542	2896	8976	11020	4543	2423	4195
MEAN	61.0	28.3	14.5	10.6	10.5	17.5	96.5	290	367	147	78.2	140
MAX	124	39	18	12	15	24	232	450	425	342	172	338
MIN	23	18	10	9.5	8.5	11	24	127	312	76	48	52
AC-FT	3750	1690	891	653	581	1080	5740	17800	21860	9010	4810	8320

CAL YR 1981 TOTAL 20247.0 MEAN 55.5 MAX 380 MIN 7.0 AC-FT 40160
WTR YR 1982 TOTAL 38408.0 MEAN 105 MAX 450 MIN 8.5 AC-FT 76180

NOTE.--NO GAGE-HEIGHT RECORD DEC. 17 TO MAR. 21.

09342500 SAN JUAN RIVER AT PAGOSA SPRINGS, CO

LOCATION.--Lat 37°15'58", long 107°00'37", in NE¼SW¼ sec.13, T.35 N., R.2 W., Archuleta County, Hydrologic Unit 14080101, on right bank at former bridge site in Pagosa Springs, 0.2 mi (0.3 km) upstream from McCabe Creek, 0.6 mi (1.0 km) downstream from bridge on U.S. Highway 160, and 2.0 mi (3.2 km) upstream from Mill Creek.

DRAINAGE AREA.--298 mi^2 (772 km^2).

PERIOD OF RECORD.--October 1910 to December 1914, May 1935 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1914(M).

GAGE.--Water-stage recorder. Datum of gage is 7,052.04 ft (2,149.462 m), National Geodetic Vertical Datum of 1929. Jan. 29 to Mar. 6, 1911, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. Mar. 7 to Oct. 4, 1911, nonrecording gage at present site at different datum. Nov. 23, 1911, to Nov. 14, 1914, nonrecording gage at site 300 ft (91 m) downstream at different datum.

REMARKS.--Records good. Diversions for irrigation of large areas above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--51 years, 368 ft^3/s (10.42 m^3/s) 266,600 acre-ft/yr (329 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft^3/s (708 m^3/s) Oct. 5, 1911, gage height, 17.8 ft (5.43 m), from floodmarks, from velocity-area study; minimum daily, 9.7 ft^3/s (0.27 m^3/s) Oct. 5, 6, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1885, that of Oct. 5, 1911. Flood of June 29, 1927, reached a stage of 13.5 ft (4.11 m), discharge about 16,000 ft^3/s (453 m^3/s), from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft^3/s (42 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 3	0200	*2,240	63.4	5.30	1.615	Sept. 20	1300	1,510	42.8	4.60	1.402
May 29	2300	2,070	58.6	5.13	1.564	Sept. 30	2300	1,980	56.1	5.09	1.551
Aug. 25	0800	2,130	60.3	5.24	1.597						

Minimum daily discharge, 48 ft^3/s (1.36 m^3/s) Dec. 24, Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	156	65	66	60	90	182	1340	1870	1310	208	286
2	113	156	62	61	53	97	205	1380	1850	1150	192	247
3	380	156	68	58	55	97	203	1990	1790	987	230	216
4	250	149	77	53	52	90	276	1720	1670	896	203	205
5	227	147	90	58	50	80	328	1810	1720	804	185	296
6	208	145	85	62	48	68	304	1420	1530	696	165	232
7	200	158	88	64	51	76	250	1110	1500	620	163	235
8	200	149	90	58	53	83	235	1020	1620	565	163	238
9	205	143	90	56	55	85	247	1020	1650	560	163	230
10	187	134	88	61	56	92	282	1040	1700	535	147	203
11	200	134	95	60	56	105	388	1090	1680	520	163	259
12	352	128	90	65	53	306	798	1000	1720	470	154	485
13	456	124	87	62	52	222	938	910	1910	456	175	605
14	456	122	74	58	55	205	980	774	1800	420	250	620
15	440	114	68	56	56	180	1010	696	1740	392	208	720
16	640	110	78	57	57	151	924	660	1600	356	203	903
17	452	108	60	58	56	138	816	678	1690	400	182	973
18	396	108	56	57	55	130	828	726	1670	348	165	810
19	368	88	66	60	56	124	774	931	1730	336	222	726
20	348	88	74	60	61	112	732	1050	1410	316	227	1150
21	324	97	77	58	66	108	615	1440	1320	276	216	1070
22	290	97	72	57	77	106	530	1540	1270	253	244	828
23	268	94	56	51	90	114	475	1300	1340	250	400	678
24	247	94	48	52	94	132	444	1230	1390	253	756	570
25	230	92	51	53	88	151	436	1320	1460	227	1320	480
26	211	88	58	55	82	163	456	1520	1400	230	938	428
27	208	77	68	58	82	156	475	1790	1400	211	720	384
28	203	88	53	58	83	185	595	1620	1470	247	600	384
29	198	92	61	57	---	200	840	1850	1420	279	456	348
30	182	90	64	56	---	151	994	1860	1270	276	420	785
31	163	---	66	56	---	147	---	1740	---	241	332	---
TOTAL	8689	3526	2225	1801	1752	4144	16560	39575	47590	14880	10170	15594
MEAN	280	118	71.8	58.1	62.6	134	552	1277	1586	480	328	520
MAX	640	158	95	66	94	306	1010	1990	1910	1310	1320	1150
MIN	87	77	48	51	48	68	182	660	1270	211	147	203
AC-FT	17230	6990	4410	3570	3480	8220	32850	78500	94390	29510	20170	30930

CAL YR 1981 TOTAL 82567 MEAN 226 MAX 1600 MIN 29 AC-FT 163800
WTR YR 1982 TOTAL 166506 MEAN 456 MAX 1990 MIN 48 AC-FT 330300

09343300 RIO BLANCO BELOW BLANCO DIVERSION DAM, NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°12'11", long 106°48'45", in NW¼ sec.11, T.34 N., R.1 E., Archuleta County, Hydrologic Unit 14080101, on left bank 250 ft (76 m) downstream from Blanco Diversion Dam, 1.1 mi (1.8 km) downstream from Leche Creek, and 12 mi (19.2 km) southeast of Pagosa Springs.

DRAINAGE AREA.--69.1 mi² (179.2 km²).

PERIOD OF RECORD.--March 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,848.81 ft (2,392.3 m), National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Flows controlled by diversion dam upstream.

COOPERATION.--Records collected and computed by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,310 ft³/s (37.1 m³/s) Sept. 30, 1982, gage height, 4.68 ft (1.426 m); minimum daily, 6.9 ft³/s (0.20 m³/s) Dec. 29, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,310 ft³/s (37.1 m³/s) Sept. 30, gage height, 4.68 ft (1.426 m); minimum daily, 12 ft³/s (0.34 m³/s) Feb. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	35	19	16	14	25	38	98	86	212	107	80
2	119	33	20	14	15	26	41	109	73	334	97	67
3	233	32	23	15	16	26	40	262	56	290	92	59
4	124	33	23	13	14	24	54	155	50	265	81	65
5	101	31	25	13	13	21	64	107	59	233	70	103
6	87	30	22	15	12	20	59	55	45	205	69	60
7	59	37	22	14	12	20	39	46	42	178	66	59
8	83	38	26	14	13	22	21	47	43	172	70	58
9	67	35	25	14	14	22	20	47	48	188	63	37
10	56	37	25	14	15	24	21	50	72	185	57	35
11	70	37	25	14	15	27	21	49	67	175	72	122
12	175	33	22	15	14	49	22	42	84	170	61	389
13	213	30	22	14	13	39	22	41	98	168	57	324
14	188	30	20	13	13	35	22	41	87	157	93	312
15	172	28	19	13	13	32	22	41	55	142	80	354
16	149	27	19	13	15	29	22	41	39	138	119	368
17	100	26	16	14	15	27	22	42	45	145	70	307
18	84	25	18	14	15	25	22	42	50	132	45	224
19	80	20	22	15	15	24	22	44	45	133	25	190
20	79	20	22	16	17	24	22	65	28	127	24	239
21	58	21	20	14	22	22	21	111	36	116	23	198
22	54	21	18	14	28	22	20	89	42	104	23	170
23	52	20	17	13	25	23	20	62	48	101	106	153
24	43	20	20	14	20	26	20	62	47	98	231	133
25	43	20	17	15	18	29	20	70	45	102	253	109
26	42	18	18	16	20	31	20	130	37	96	227	94
27	42	17	19	18	23	30	20	126	43	91	212	87
28	42	19	18	16	24	32	21	103	47	98	175	88
29	39	20	17	17	---	36	21	139	40	139	144	90
30	35	19	17	14	---	27	34	112	34	178	130	254
31	36	---	17	14	---	31	---	72	---	129	107	---
TOTAL	2747	812	633	448	463	850	833	2500	1591	5001	3049	4828
MEAN	88.6	27.1	20.4	14.5	16.5	27.4	27.8	80.6	53.0	161	98.4	161
MAX	233	38	26	18	28	49	64	262	98	334	253	389
MIN	22	17	16	13	12	20	20	41	28	91	23	35
AC-FT	5450	1610	1260	889	918	1690	1650	4960	3160	9920	6050	9580

CAL YR 1981 TOTAL 10169.2 MEAN 27.9 MAX 233 MIN 1.0 AC-FT 20170
WTR YR 1982 TOTAL 23755.0 MEAN 65.1 MAX 389 MIN 12 AC-FT 47120

09344000 NAVAJO RIVER AT BANDED PEAK RANCH, NEAR CHROMO, CO

LOCATION.--Lat 37°05'07", long 106°41'20", in NW¼ sec.24, T.33 N., R.2 E., Archuleta County, Hydrologic Unit 14080101, on left bank at downstream side of private bridge on Banded Peak Ranch, 0.5 mi (0.8 km) downstream from Aspen Creek, 4.0 mi (6.4 km) downstream from East Fork, and 9 mi (14 km) northeast of Chromo.

DRAINAGE AREA.--69.8 mi² (181 km²).

PERIOD OF RECORD.--October 1936 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 7,940.6 ft (2,420.29 m) National Geodetic Vertical Datum of 1929 (river-profile survey). Prior to Oct. 1, 1949, at datum 3.00 ft (0.914 m) higher.

REMARKS.--Records good. Diversions for irrigation of about 430 acres (1.74 km²) above station. Several observations of water temperature were obtained and are published elsewhere in this report.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

AVERAGE DISCHARGE.--46 years, 105 ft³/s (2.974 m³/s), 76,070 acre-ft/yr (93.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,480 ft³/s (41.9 m³/s) June 9, 1980, gage height, 4.55 ft (1.387 m), from rating curve extended above 840 ft³/s (24 m³/s), on basis of float-area measurement at gage height 4.44 ft (1.353 m); maximum gage height, 7.02 ft (2.140 m) present datum, May 13, 1941; minimum daily discharge, 8.4 ft³/s (0.24 m³/s) Sept. 29, 1960, result of temporary blockage by channel alteration upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 2	2300	* 766	21.7	3.32	1.012	Aug. 25	1730	692	19.6	3.04	0.927
May 26	2230	670	19.0	3.12	0.951						

Mininum daily discharge, 26 ft³/s (0.74 m³/s) Jan. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	53	28	28	30	34	45	548	520	476	149	103
2	85	52	28	27	30	35	51	534	502	424	146	93
3	140	49	28	27	30	36	50	620	489	379	137	90
4	98	48	28	26	30	34	59	552	468	350	120	90
5	86	47	28	27	30	33	68	489	448	332	109	109
6	80	47	28	28	30	31	67	362	400	295	106	89
7	74	51	28	27	30	31	64	305	420	258	103	89
8	70	52	28	28	30	32	63	308	456	245	98	93
9	69	51	30	29	30	31	67	317	452	268	82	91
10	67	50	30	30	30	32	77	317	472	270	75	88
11	68	47	30	30	30	36	110	332	473	250	85	128
12	86	45	30	30	29	52	192	300	530	238	84	218
13	106	42	30	30	30	45	212	268	561	232	107	255
14	126	42	30	30	30	44	240	230	566	218	98	258
15	129	41	29	30	30	42	258	216	507	205	94	252
16	137	40	30	30	30	39	238	201	468	203	110	308
17	114	39	28	29	30	38	225	203	498	203	90	329
18	106	37	28	29	30	37	235	223	590	196	77	270
19	100	32	28	29	30	35	232	260	575	194	100	223
20	95	31	28	28	32	34	212	292	464	182	95	252
21	88	31	30	28	33	34	176	379	448	167	94	209
22	79	31	29	29	34	34	149	412	460	158	113	180
23	77	31	28	29	34	34	139	376	498	142	188	156
24	72	30	28	29	34	36	137	382	494	137	252	139
25	67	30	28	29	34	37	149	396	538	134	386	124
26	64	28	28	29	33	37	156	468	538	117	285	114
27	61	28	28	29	33	37	173	516	520	117	216	107
28	61	29	28	30	34	40	221	468	585	135	165	107
29	58	30	28	30	---	41	298	552	566	158	132	106
30	58	29	28	30	---	34	359	538	502	250	130	124
31	57	---	28	30	---	37	---	507	---	176	118	---
TOTAL	2620	1193	886	894	870	1132	4722	11871	15008	7109	4144	4794
MEAN	84.5	39.8	28.6	28.8	31.1	36.5	157	383	500	229	134	160
MAX	140	53	30	30	34	52	359	620	590	476	386	329
MIN	42	28	28	26	29	31	45	201	400	117	75	88
AC-FT	5200	2370	1760	1770	1730	2250	9370	23550	29770	14100	8220	9510

CAL YR 1981 TOTAL 27635 MEAN 75.7 MAX 444 MIN 24 AC-FT 54810
WTR YR 1982 TOTAL 55243 MEAN 151 MAX 620 MIN 26 AC-FT 109600

09344400 NAVAJO RIVER BELOW OSO DIVERSION DAM, NEAR CHROMO, CO

LOCATION.--Lat 37°01'48", long 106°44'16", in NE¼ sec.9, T.32 N., R.2 E., Archuleta County, Hydrologic Unit 14080101, on left bank 600 ft (183 m) downstream from Oso Diversion Dam, 5.5 mi (8.8 km) east of Chromo, and 6 mi (9.6 km) upstream from Little Navajo River.

DRAINAGE AREA.--100.5 mi² (260.6 km²).

PERIOD OF RECORD.--March 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,647.71 ft (2,331.0 m), National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Flows controlled by diversion dam upstream.

COOPERATION.--Records collected and computed by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 870 ft³/s (24.6 m³/s) May 11, 1973; minimum daily, 10 ft³/s (0.28 m³/s) Oct. 10, 11, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 495 ft³/s (14.0 m³/s) Aug. 25, gage height, 4.27 ft (1.301 m); minimum daily, 20 ft³/s (0.57 m³/s) Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	56	29	30	31	40	75	338	103	58	160	119
2	75	55	30	30	31	41	84	217	88	58	106	108
3	195	55	32	28	30	42	79	256	74	190	67	99
4	112	53	35	26	26	40	110	197	58	272	60	98
5	101	51	35	26	24	38	128	145	61	252	61	120
6	93	49	35	30	20	34	80	91	57	218	62	95
7	85	55	34	28	22	33	39	90	56	178	61	92
8	79	56	34	26	26	37	40	90	57	173	61	73
9	77	54	34	26	28	38	39	90	58	216	60	60
10	72	52	35	28	28	40	40	90	58	225	70	60
11	72	51	37	28	29	45	40	90	57	209	93	60
12	93	49	36	28	30	84	38	90	56	115	91	177
13	120	47	36	28	30	70	40	90	56	87	106	270
14	148	46	35	28	30	70	37	90	57	162	121	278
15	150	45	34	30	32	65	40	90	56	165	108	272
16	172	45	35	30	37	58	40	90	56	152	132	305
17	134	44	31	27	36	56	40	90	56	160	98	332
18	120	42	30	27	36	53	41	90	64	144	74	292
19	114	37	35	30	36	51	38	89	73	159	88	252
20	107	36	35	33	36	49	39	89	57	164	104	278
21	100	36	35	32	38	46	39	89	58	160	102	240
22	88	36	34	30	40	46	39	89	58	135	118	166
23	84	36	30	30	38	46	40	89	58	115	165	105
24	79	35	30	30	37	48	41	89	57	114	254	73
25	74	35	32	30	38	54	40	89	58	111	350	60
26	70	34	34	32	36	58	38	108	57	100	284	59
27	66	32	32	32	36	54	38	130	58	110	226	61
28	65	34	32	30	37	61	39	105	57	142	190	60
29	63	37	32	32	---	66	38	147	58	153	158	61
30	62	35	32	30	---	48	67	123	59	238	99	61
31	59	---	33	29	---	55	---	116	---	190	101	---
TOTAL	2973	1328	1033	904	898	1566	1526	3676	1836	4925	3830	4386
MEAN	95.9	44.3	33.3	29.2	32.1	50.5	50.9	119	61.2	159	124	146
MAX	195	56	37	33	40	84	128	338	103	272	350	332
MIN	44	32	29	26	20	33	37	89	56	58	60	59
AC-FT	5900	2630	2050	1790	1780	3110	3030	7290	3640	9770	7600	8700

CAL YR 1981 TOTAL 18562 MEAN 50.9 MAX 195 MIN 25 AC-FT 36820
WTR YR 1982 TOTAL 28881 MEAN 79.1 MAX 350 MIN 20 AC-FT 57290

09345200 LITTLE NAVAJO RIVER BELOW LITTLE OSO DIVERSION DAM, NEAR CHROMO, CO

LOCATION.--Lat 37°04'32", long 106°48'38", in SW¼ sec.23, T.33 N., R.1 E., Archuleta County, Hydrologic Unit 14080101, on right bank at Little Oso Diversion Dam, 3.5 mi (5.6 km) northeast of Chromo, and 4.0 mi (6.4 km) upstream from confluence with Navajo River.

DRAINAGE AREA.--14.2 mi² (36.8 km²).

PERIOD OF RECORD.--June 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,756.10 ft (2,364.1 m), National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Flows controlled by diversion dam upstream.

COOPERATION.--Records collected and computed by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 235 ft³/s (6.66 m³/s) May 30, 1979; no flow Apr. 14, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 50 ft³/s (1.42 m³/s) Apr. 29, gage height, 1.19 ft (0.363 m); minimum daily, 1.4 ft³/s (0.040 m³/s) Nov. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	3.8	1.9	2.2	2.0	2.9	11	34	28	27	7.2	7.9
2	5.6	3.8	2.6	2.4	2.0	2.9	12	29	28	24	7.6	7.4
3	15	3.5	2.5	2.4	2.0	3.0	12	34	29	20	7.8	6.9
4	8.0	3.4	2.4	2.2	2.0	2.9	17	28	29	19	6.3	7.1
5	7.0	3.2	2.5	2.1	2.0	2.8	20	30	29	18	5.8	7.6
6	5.4	3.0	2.5	2.2	2.0	2.6	21	28	28	17	6.4	6.7
7	4.1	3.6	2.5	2.2	2.0	2.8	29	29	28	15	8.5	6.1
8	3.8	3.8	2.6	2.0	2.0	2.8	28	30	30	15	7.4	7.3
9	3.6	3.7	2.6	2.0	2.0	2.8	28	29	29	14	6.3	7.5
10	3.3	3.6	2.6	2.0	2.0	3.2	27	30	28	13	5.4	6.5
11	3.6	3.6	2.6	2.0	2.0	3.6	28	29	28	12	5.8	14
12	5.1	3.3	2.5	2.0	2.0	8.6	30	29	28	12	5.6	28
13	8.0	3.5	2.5	2.0	2.0	7.4	28	29	28	11	5.9	30
14	11	3.3	2.4	2.0	2.0	6.7	28	28	28	10	7.0	33
15	11	3.3	2.4	2.0	2.0	5.4	30	28	28	9.0	5.2	31
16	12	3.3	2.4	2.0	2.0	4.6	31	24	28	8.6	6.9	30
17	9.9	3.2	2.0	2.0	2.0	4.3	31	28	28	8.8	5.1	37
18	8.8	2.6	2.0	2.0	2.0	4.3	31	28	29	8.6	4.9	30
19	8.0	1.4	2.1	2.0	2.0	4.8	31	28	28	9.8	4.8	24
20	7.0	2.0	2.1	2.0	2.1	3.9	31	27	28	9.4	7.0	25
21	6.3	2.2	2.2	2.0	2.5	3.9	31	28	28	8.0	6.0	21
22	6.0	2.8	2.2	2.0	2.8	3.9	31	28	28	7.4	7.6	19
23	5.4	2.5	2.0	2.0	2.9	4.4	31	28	28	7.2	11	17
24	4.9	2.5	1.9	2.0	2.6	5.4	31	28	28	6.9	20	16
25	4.6	2.5	1.9	2.0	2.6	6.7	31	29	28	6.7	30	14
26	4.6	2.0	1.9	2.0	2.5	4.7	31	29	28	6.9	21	14
27	4.4	1.6	2.0	2.1	2.6	5.8	32	28	28	6.5	14	14
28	4.3	2.8	2.0	2.0	2.6	6.9	32	29	28	9.2	12	15
29	4.3	2.8	2.0	2.0	---	8.0	35	29	28	11	10	15
30	4.1	2.4	2.0	2.0	---	6.0	33	29	28	12	9.4	22
31	3.9	---	2.2	2.0	---	6.3	---	29	---	8.8	9.2	---
TOTAL	194.9	89.0	70.0	63.8	61.2	144.3	822	893	847	371.8	277.1	520.0
MEAN	6.29	2.97	2.26	2.06	2.19	4.65	27.4	28.8	28.2	12.0	8.94	17.3
MAX	15	3.8	2.6	2.4	2.9	8.6	35	34	30	27	30	37
MIN	1.9	1.4	1.9	2.0	2.0	2.6	11	24	28	6.5	4.8	6.1
AC-FT	387	177	139	127	121	286	1630	1770	1680	737	550	1030

CAL YR 1981 TOTAL 2366.2 MEAN 6.48 MAX 45 MIN 1.4 AC-FT 4690
WTR YR 1982 TOTAL 4354.1 MEAN 11.9 MAX 37 MIN 1.4 AC-FT 8640

09346000 NAVAJO RIVER AT EDITH, CO

LOCATION.--Lat 37°00'10", long 106°54'25", in NW¼NW¼ sec.24, T.32 N., R.1 W., Archuleta County, Hydrologic Unit 14080101, on right bank 290 ft (88 m) downstream from highway bridge, 0.2 mi (0.3 km) southeast of Edith, 0.5 mi (0.8 km) upstream from Colorado-New Mexico State line, and 1.3 mi (2.1 km) upstream from Coyote Creek.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--Streamflow records, September 1912 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313. Water-quality data available, November 1970 to September 1974. Sediment data available April 1973 to September 1974.

REVISED RECORDS.--WSP 1243: 1943, 1945. WSP 1633: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 7,033.00 ft (2,143.658 m), National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). Prior to Jan. 1, 1929, nonrecording gage at site 240 ft (73 m) upstream at different datum. June 2, 1935, to June 27, 1941, water-stage recorder at sites 200 and 240 ft (61 and 73 m) upstream at datum 2.0 ft (0.61 m) higher. June 28, 1941, to June 20, 1961, at site 50 ft (15 m) downstream at present datum.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 1,700 acres (6.88 km²) above station. High-water diversions above station into Heron Reservoir through Azotea tunnel began in March 1971. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--58 years (water years 1913-70), 155 ft³/s (4.390 m³/s), 112,300 acre-ft/yr (138 hm³/yr), prior to diversions through Azotea tunnel; 12 years (water years 1971-82), 67.5 ft³/s (1.912 m³/s), 48,900 acre-ft/yr (60.3 hm³/yr), subsequent to diversion through Azotea tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,840 ft³/s (80.4 m³/s) Apr. 23, 1942, gage height, 6.55 ft (1.996 m), from rating curve extended above 1,100 ft³/s (31 m³/s); minimum daily, 8.0 ft³/s (0.23 m³/s) Sept. 25, 1953, Aug. 7, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 5, 1911, exceeded all other observed floods at this location.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 772 ft³/s (21.9 m³/s) Aug. 25, gage height, 4.59 ft (1.399 m); minimum daily, 26 ft³/s (0.74 m³/s) Feb. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	72	38	34	32	46	167	466	125	79	164	123
2	115	68	32	32	30	50	181	346	99	79	128	106
3	306	66	34	30	28	50	148	458	102	191	82	102
4	125	65	38	28	28	48	254	302	75	320	68	106
5	106	65	46	30	28	44	286	282	82	290	66	133
6	92	63	46	34	26	38	202	184	77	250	66	102
7	79	70	46	34	26	40	128	164	75	206	70	96
8	72	70	46	32	28	44	118	157	81	184	66	92
9	79	66	46	30	30	46	128	151	81	230	65	79
10	72	65	41	32	30	47	143	148	84	246	68	75
11	73	65	44	32	30	54	206	145	81	226	90	88
12	100	63	44	34	30	169	371	145	75	161	92	207
13	160	62	44	34	28	136	242	157	72	82	96	302
14	216	62	41	32	30	130	192	148	73	151	120	325
15	206	60	39	30	30	111	174	142	73	170	100	286
16	250	60	41	30	30	90	145	136	72	151	123	355
17	163	58	38	30	30	84	128	133	73	157	96	410
18	136	55	36	30	30	86	128	133	77	136	79	306
19	125	49	41	32	30	79	120	130	105	154	81	266
20	118	47	42	32	32	73	104	125	81	164	100	302
21	111	47	42	32	36	72	100	123	86	160	100	246
22	98	47	39	30	40	70	86	120	88	136	113	174
23	96	46	33	28	46	73	88	118	82	118	166	118
24	90	46	32	28	48	81	94	118	82	111	350	90
25	84	46	28	28	46	98	88	111	77	108	490	77
26	82	44	30	28	44	111	92	116	77	102	375	75
27	79	41	34	30	44	100	96	162	72	108	258	73
28	77	44	28	30	44	137	98	113	70	157	223	73
29	75	47	32	30	---	150	104	154	75	170	184	73
30	73	47	34	30	---	94	134	138	77	242	125	90
31	72	---	34	30	---	99	---	113	---	209	106	---
TOTAL	3595	1706	1189	956	934	2550	4545	5438	2449	5248	4310	4950
MEAN	116	56.9	38.4	30.8	33.4	82.3	152	175	81.6	169	139	165
MAX	306	72	46	34	48	169	371	466	125	320	490	410
MIN	65	41	28	28	26	38	86	111	70	79	65	73
AC-FT	7130	3380	2360	1900	1850	5060	9020	10790	4860	10410	8550	9820

CAL YR 1981 TOTAL 21322 MEAN 58.4 MAX 306 MIN 22 AC-FT 42290
WTR YR 1982 TOTAL 37870 MEAN 104 MAX 490 MIN 26 AC-FT 75120

09346400 SAN JUAN RIVER NEAR CARRACAS, CO

LOCATION.--Lat 37°00'49", long 107°18'42", in SE¼SW¼ sec.17, T.32 N., R.4 W., Archuleta County, Hydrologic Unit 14080101, on right bank just upstream from flow line of Navajo Reservoir, 3 mi (5 km) northwest of Carracas, 7.2 mi (11.6 km) upstream from Piadra River, and at mile 332.8 (535.5 km).

DRAINAGE AREA.--1,230 mi² (3,190 km²), approximately.

PERIOD OF RECORD.--Streamflow records, October 1961 to current year. Water-quality data available, July 1969 to August 1973. Sediment data available, August 1973.

GAGE.--Water-stage recorder. Altitude of gage is 6,090 ft (1,856 m), from river-profile map.

REMARKS.--Records good except those for winter period and those for period of no gage-height record, which are poor. Diversions for irrigation of about 11,000 acres (45 km²) above station. Highwater diversions above station into Rio Grande basin through Azotea tunnel (station 08284160) began in March 1971. Several observations of specific conductance and water temperature were obtained and are publisned elsewhere in this report.

AVERAGE DISCHARGE.--9 years (water years 1962-70), 632 ft³/s (17.90 m³/s), 457,900 acre-ft/yr (565 hm³/yr), prior to completion of Azotea tunnel. 12 years (water years 1971-82), 566 ft³/s (16.03 m³/s), 410,100 acre-ft/yr (506 hm³/yr) since completion of Azotea tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,730 ft³/s (276 m³/s) Sept. 6, 1970, gage height, 8.34 ft (2.542 m), from rating curve extended above 6,000 ft³/s (170 m³/s), on basis of slope-area measurement of peak flow; minimum daily, about 5 ft³/s (0.1 m³/s) Dec. 10, 1961, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred Sept. 5 or 6, 1909; Oct. 5, 1911; June 29, 1927.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft³/s (71 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 12	1400	*5,070	144	6.10	1.859	May 3	0830	3,930	111	5.79	1.765
Apr. 13	0330	2,760	78.2	4.96	1.512	Aug. 25	1500	3,550	101	5.28	1.609

Minimum daily discharge, 111 ft³/s (3.14 m³/s) Dec. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	300	145	160	140	230	898	2170	2140	1490	588	594
2	245	291	145	150	130	250	1250	2300	2050	1640	512	529
3	1170	291	142	140	130	250	802	3260	2050	1450	501	469
4	582	283	142	130	130	230	1300	2790	1820	1560	448	448
5	485	279	138	140	120	200	1630	2550	1900	1450	412	650
6	432	275	138	150	120	190	1470	2220	1700	1240	369	512
7	407	287	135	150	120	214	969	1670	1590	1060	360	474
8	379	329	132	140	130	218	802	1450	1670	845	360	564
9	407	296	132	140	130	260	734	1430	1720	898	356	422
10	360	279	132	140	130	296	802	1400	1790	913	325	398
11	342	264	130	150	130	438	994	1430	1790	860	347	485
12	490	260	130	160	130	3110	1830	1360	1810	754	379	1030
13	754	253	130	150	130	1380	2020	1300	1900	594	398	1470
14	838	242	130	140	130	1240	1830	1150	1900	600	524	1500
15	740	235	132	140	140	961	1780	961	1830	613	507	1260
16	1030	228	148	140	140	689	1620	890	1670	564	512	1470
17	838	224	153	140	140	663	1420	882	1740	607	469	1750
18	702	221	115	140	130	663	1390	890	1740	570	407	1370
19	657	207	111	140	140	553	1320	1040	1840	541	393	1240
20	619	156	140	150	150	427	1210	1160	1620	588	417	1410
21	582	159	176	140	160	398	1010	1460	1460	541	417	1540
22	529	156	170	140	180	388	875	1810	1420	507	469	1210
23	490	165	128	130	220	427	708	1590	1450	463	644	994
24	458	165	118	120	240	501	708	1520	1480	427	1850	852
25	427	165	120	120	220	619	631	1550	1550	417	2450	728
26	388	142	140	130	210	781	644	1680	1490	438	2200	663
27	379	145	160	140	210	781	669	2150	1430	422	1570	594
28	369	145	130	140	210	875	747	1900	1530	570	1350	594
29	356	142	150	140	---	1230	1070	2200	1530	607	921	570
30	342	142	150	130	---	650	1270	2270	1400	728	728	607
31	320	---	160	130	---	535	---	2000	---	781	760	---
TOTAL	16305	6726	4302	4350	4290	19647	34403	52433	51010	24738	21943	26397
MEAN	526	224	139	140	153	634	1147	1691	1700	798	708	880
MAX	1170	329	176	160	240	3110	2020	3260	2140	1640	2450	1750
MIN	188	142	111	120	120	190	631	882	1400	417	325	398
AC-FT	32340	13340	8530	8630	8510	38970	68240	104000	101200	49070	43520	52360

CAL YR 1981 TOTAL 125012 MEAN 342 MAX 1630 MIN 85 AC-FT 248000
WTR YR 1982 TOTAL 266544 MEAN 730 MAX 3260 MIN 111 AC-FT 528700

NOTE.--NO GAGE-HEIGHT RECORD JAN. 4 TO FEB. 9.

09347205 MIDDLE FORK PIEDRA RIVER NEAR DYKE, CO

LOCATION.--Lat 37°27'10", long 107°10'33", in NE¼SW¼ sec.10, T.37 N., R.3 W., Hinsdale County, Hydrologic Unit 14080102, on left bank 1.8 mi (2.9 km) northeast of Piedra Guard Station, 2 mi (3.2 km) downstream from headgate of Toner-Taylor ditch, and 15 mi (24 km) northwest of Pagosa Springs.

DRAINAGE AREA.--34.1 mi² (88.3 km²).

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,860 ft (2,400 m). (Record is not equivalent to record for station 09347200.)

REMARKS.--Records good except those for winter period, which are poor. There is one small diversion above station for irrigation of a few acres of hay meadow below the station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--5 years, 53.7 ft³/s (1.521 m³/s), 38,910 acre-ft/yr (48.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 765 ft³/s (21.7 m³/s) Aug. 25, 1982, gage height, 3.65 ft (1.113 m); minimum daily, 2.0 ft³/s (0.057 m³/s) Oct. 17-20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 765 ft³/s (21.7 m³/s) at 0600 Aug. 25, gage height, 3.65 ft (1.113 m); maximum gage height, 3.85 ft (1.173 m) Dec. 22 (backwater from ice); minimum daily discharge, 5.5 ft³/s (0.16 m³/s) Feb. 6-9, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	24	11	8.0	6.5	9.0	15	120	212	185	38	54
2	25	23	9.5	7.5	6.5	9.0	15	120	203	149	32	45
3	56	23	8.0	7.0	6.0	9.5	16	161	191	125	35	41
4	38	23	9.0	6.5	6.0	10	19	135	188	110	28	40
5	32	23	10	6.5	6.0	9.0	24	149	197	98	27	45
6	32	22	11	7.0	5.5	8.5	24	125	179	85	24	36
7	29	24	11	7.5	5.5	6.7	23	102	173	76	23	35
8	34	23	11	7.5	5.5	8.4	22	95	191	70	21	36
9	34	21	11	7.0	5.5	8.5	22	90	197	66	21	36
10	30	20	11	7.0	6.0	8.8	27	88	206	60	21	32
11	37	20	11	7.0	6.0	9.5	40	92	197	50	19	54
12	55	18	12	7.0	6.0	10	63	83	209	41	30	115
13	70	17	12	7.5	6.0	11	79	81	224	40	47	125
14	66	17	11	7.0	5.5	12	88	74	221	38	53	118
15	70	17	9.5	6.5	6.0	13	90	69	200	38	40	130
16	77	17	8.5	6.5	6.0	12	88	66	191	36	32	135
17	58	17	9.5	6.5	6.0	11	83	69	206	36	27	125
18	54	16	8.0	6.5	6.0	10	83	72	221	34	25	112
19	53	14	7.0	6.5	6.0	11	81	83	221	34	27	98
20	51	13	8.0	6.5	6.0	9.7	74	86	182	32	29	191
21	47	12	8.5	7.0	6.5	10	63	118	167	30	27	167
22	44	12	9.5	6.5	7.0	11	53	135	152	30	24	125
23	41	12	8.5	6.5	7.5	11	49	130	152	28	67	105
24	39	12	7.5	6.0	8.5	12	47	130	167	26	163	86
25	34	12	6.5	6.0	10	13	49	143	185	26	318	74
26	32	12	6.5	6.0	9.0	14	51	164	179	26	191	69
27	32	12	7.5	6.5	8.5	14	53	176	188	30	143	61
28	32	11	8.0	6.5	8.5	14	66	173	197	36	115	56
29	31	11	7.0	6.5	---	14	83	206	182	46	88	50
30	27	12	7.5	6.5	---	15	90	194	161	44	74	125
31	24	---	7.5	6.5	---	14	---	185	---	44	63	---
TOTAL	1298	510	283.5	209.5	184.0	338.6	1580	3714	5739	1769	1872	2521
MEAN	41.9	17.0	9.15	6.76	6.57	10.9	52.7	120	191	57.1	60.4	84.0
MAX	77	24	12	8.0	10	15	90	206	224	185	318	191
MIN	14	11	6.5	6.0	5.5	6.7	15	66	152	26	19	32
AC-FT	2570	1010	562	416	365	672	3130	7370	11380	3510	3710	5000

CAL YR 1981 TOTAL 11478.7 MEAN 31.4 MAX 208 MIN 4.2 AC-FT 22770
WTR YR 1982 TOTAL 20018.6 MEAN 54.8 MAX 318 MIN 5.5 AC-FT 39710

09349800 PIEDRA RIVER NEAR ARBOLES, CO

LOCATION.--Lat 37°05'18", long 107°23'50", in NE¼SW¼ sec.21, T.33 N., R.5 W., Archuleta County, Hydrologic Unit 14080102, on left bank 3 mi (5 km) downstream from Ignacio Creek, 5.2 mi (8.4 km) northeast of Arboles Post Office, and 8 mi (13 km) upstream from mouth.

DRAINAGE AREA.--629 mi² (1,629 km²).

PERIOD OF RECORD.--Streamflow records, August 1962 to current year. Gage operated 1895-99 and 1910-27 at site 7.5 mi (12.1 km) downstream at altitude 6,000 ft (1,830 m). Low-flow records probably not equivalent. Water-quality data available, November to August 1973.

GAGE.--Water-stage recorder. Datum of gage is 6,147.52 ft (1,873.764 m) Colorado State Highway Department bench mark.

REMARKS.--Records good except those for winter period and those for period of no gage-height record, which are poor. Diversions for irrigation of about 2,800 acres (11 km²) above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--20 years, 372 ft³/s (10.54 m³/s), 269,500 acre-ft/yr (332 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,370 ft³/s (237 m³/s) Sept. 6, 1970, gage height, 6.38 ft (1.945 m) recorded, 7.55 ft (2.301 m) from floodmarks, from rating curve extended above 4,400 ft³/s (125 m³/s), on basis of slope-area measurement of peak flow; minimum, 11 ft³/s (0.31 m³/s) Dec. 9, 1963, Oct. 1, 1966.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred Sept. 5 or 6, 1909, and Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 13	0200	*4,060	115	4.88	1.487	Aug. 25	0130	3,270	92.6	4.40	1.341
May 3	0800	2,950	83.5	4.28	1.305						

Minimum daily discharge, 58 ft³/s (1.64 m³/s) Dec. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	202	92	80	75	110	470	1680	1420	836	194	400
2	97	184	86	75	65	120	552	1780	1400	748	170	340
3	304	177	92	70	70	120	516	2550	1380	628	252	290
4	298	174	86	65	65	110	705	2320	1300	540	217	290
5	245	167	90	70	60	95	916	2710	1320	486	188	326
6	245	161	88	75	60	90	980	2290	1220	430	164	303
7	217	164	82	75	60	95	748	1710	1070	395	184	313
8	205	177	84	75	65	100	726	1450	1100	370	188	265
9	253	167	84	70	70	110	684	1350	1120	345	177	270
10	225	158	86	70	70	130	756	1260	1160	312	164	260
11	217	152	92	75	70	180	1280	1230	1130	273	167	400
12	365	149	94	80	65	500	1900	1150	1110	261	188	750
13	540	143	88	75	65	480	2200	1080	1200	245	335	950
14	588	135	84	70	65	440	1900	956	1180	229	480	1000
15	528	132	76	65	70	410	1800	876	1110	209	410	850
16	684	130	80	70	70	380	1600	812	980	198	321	950
17	558	128	82	70	70	350	1400	796	1050	198	273	1100
18	470	122	67	70	70	321	1300	836	1020	188	257	950
19	430	108	86	75	70	277	1100	924	1140	191	257	850
20	410	99	90	75	75	229	1010	956	956	177	237	950
21	375	104	84	70	80	202	876	1160	868	164	225	1000
22	355	106	78	70	95	194	788	1340	812	161	237	850
23	326	104	61	65	110	198	719	1320	788	152	298	700
24	308	101	58	65	120	217	733	1240	780	143	767	550
25	290	101	60	65	100	261	705	1260	836	138	2210	500
26	265	97	65	65	100	350	684	1310	828	143	1310	450
27	253	86	80	70	100	355	677	1520	820	146	972	400
28	245	86	70	70	100	410	726	1390	844	177	820	390
29	233	106	65	70	---	570	1000	1540	836	249	990	380
30	221	97	75	65	---	420	1170	1500	748	241	650	400
31	205	---	80	70	---	380	---	1370	---	221	500	---
TOTAL	10052	4017	2485	2195	2155	8204	30621	43666	31526	9194	13802	17427
MEAN	324	134	80.2	70.8	77.0	265	1021	1409	1051	297	445	581
MAX	684	202	94	80	120	570	2200	2710	1420	836	2210	1100
MIN	97	86	58	65	60	90	470	796	748	138	164	260
AC-FT	19940	7970	4930	4350	4270	16270	60740	86610	62530	18240	27380	34570

CAL YR 1981 TOTAL 81073 MEAN 222 MAX 1280 MIN 46 AC-FT 160800
WTR YR 1982 TOTAL 175344 MEAN 480 MAX 2710 MIN 58 AC-FT 347800

NOTE.--NO GAGE-HEIGHT RECORD FEB. 12 TO MAR. 16.

09352900 VALLECITO CREEK NEAR BAYFIELD, CO
(Hydrologic bench-mark station)

LOCATION.--Lat 37°28'39", long 107°32'35", in NE¼NW¼ sec.16, T.37 N., R.6 W., La Plata County, Hydrologic Unit 14080101, on right bank 60 ft (18 m) upstream from Fall Creek, 0.8 mi (1.3 km) downstream from Bear Creek, 6.7 mi (10.8 km) north of Vallecito Dam, and 18 mi (29 km) north of Bayfield.

DRAINAGE AREA.--72.1 mi^2 (186.7 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 7,906.80 ft (2,409.773 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--20 years, 141 ft^3/s (3.993 m^3/s), 102,200 acre-ft/yr (126 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,050 ft^3/s (200 m^3/s) Sept. 6, 1970, gage height, 5.51 ft (1.679 m) from water-stage recorder, 6.76 ft (2.060 m) from floodmarks, from rating curve extended above 1,400 ft^3/s (40 m^3/s), on basis of slope-area measurement of peak flow; minimum daily, 6.7 ft^3/s (0.19 m^3/s) Dec. 28, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred in October 1911 and June 1927.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 889 ft^3/s (25.2 m^3/s) at 2200 June 12, gage height, 2.71 ft (0.826 m), no peak above base of 1,000 ft^3/s (28 m^3/s); minimum daily, 17 ft^3/s (0.48 m^3/s) Feb. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	88	38	26	22	27	32	260	648	664	188	134
2	69	88	36	24	22	30	32	320	640	473	176	120
3	127	92	38	24	22	30	32	404	656	445	208	112
4	127	90	39	24	22	29	36	374	648	410	192	107
5	124	90	41	26	20	28	39	368	624	338	172	110
6	124	86	39	26	19	28	39	320	536	308	168	100
7	127	86	39	24	18	28	38	265	528	302	200	96
8	137	82	38	24	18	27	37	224	592	275	168	94
9	134	79	38	24	18	26	38	212	648	290	160	104
10	127	74	38	24	17	26	40	200	648	290	150	107
11	134	72	38	24	18	27	54	200	632	302	137	160
12	168	71	36	24	18	32	98	184	680	290	168	255
13	172	66	36	25	18	31	120	172	672	275	212	245
14	157	66	35	24	18	30	144	164	632	270	290	232
15	153	63	32	23	18	29	172	168	600	260	224	302
16	168	62	34	23	18	29	157	168	624	250	200	368
17	153	61	32	24	18	28	160	188	632	245	192	320
18	150	61	30	24	18	28	164	196	648	250	172	296
19	150	52	30	22	18	26	164	216	632	228	160	296
20	150	51	34	22	19	28	157	220	473	224	168	431
21	150	54	30	20	22	28	134	314	544	220	172	424
22	144	53	29	20	26	28	120	386	488	208	168	338
23	134	52	28	20	26	28	110	404	480	212	188	280
24	127	51	28	22	26	28	102	392	520	212	338	240
25	120	49	26	22	26	28	102	452	600	216	466	196
26	110	42	26	22	24	32	107	445	592	200	386	180
27	107	45	26	24	24	30	110	584	616	240	302	180
28	104	45	26	24	25	31	124	544	608	308	250	176
29	102	48	26	24	---	32	172	640	584	302	212	164
30	96	46	28	22	---	28	212	608	520	228	180	180
31	90	---	28	22	---	30	---	552	---	204	164	---
TOTAL	3996	1965	1022	723	578	890	3046	10144	17945	8939	6531	6347
MEAN	129	65.5	33.0	23.3	20.6	28.7	102	327	598	288	211	212
MAX	172	92	41	26	26	32	212	640	680	664	466	431
MIN	61	42	26	20	17	26	32	164	473	200	137	94
AC-FT	7930	3900	2030	1430	1150	1770	6040	20120	35590	17730	12950	12590

CAL YR 1981 TOTAL 44628 MEAN 122 MAX 768 MIN 11 AC-FT 88520
WTR YR 1982 TOTAL 62126 MEAN 170 MAX 680 MIN 17 AC-FT 123200

09352900 VALLECITO CREEK NEAR BAYFIELD, CO--Continued
(Hydrologic Bench-Mark Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1968; October 1969 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1962 to September 1982 (discontinued).

INSTRUMENTATION.--Water-temperature recorder since November 1962.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 20.0°C July 10, 1974; minimum, freezing point on many days during winter months each year.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, not determined because of inoperative thermograph during period; minimum, freezing point on many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
01...	0930	56	80	96	7.1	6.0	9.4	.50	K3	K2	K2
NOV											
02...	1000	86	80	53	7.3	2.0	10.1	.53	<1	<1	<1
DEC											
02...	1140	30	105	82	7.1	.0	10.7	.58	K2	K1	K2
JAN											
07...	1145	29	90	85	--	.0	10.7	.38	K7	<1	K4
FEB											
01...	0900	29	110	81	--	.0	10.7	.41	K1	<1	<1
MAR											
01...	0930	26	110	92	7.3	1.0	10.4	.48	<1	<1	<1
31...	0930	23	130	100	7.5	1.0	10.5	8.6	<1	<1	K4
MAY											
03...	1030	405	80	65	7.7	4.0	9.6	--	K13	K1	44
JUN											
01...	0930	637	75	62	7.0	3.0	10.0	1.1	K5	<1	K2
JUL											
06...	0925	314	<50	85	7.2	5.0	9.4	--	K3	K2	K8
AUG											
02...	1100	157	<50	42	5.9	10.0	8.4	--	K2	K2	64
SEP											
01...	0950	137	80	67	6.0	8.0	8.8	--	K4	K2	>80

K BASED ON NON-IDEAL COLONY COUNT.

09352900 VALLECITO CREEK NEAR BAYFIELD, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	HARDNESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT											
01...	32	9.7	1.9	.8	.1	.6	28	<5.0	2.8	.3	3.6
NOV											
02...	33	9.9	2.0	.9	.1	.3	21	7.0	.4	.2	3.9
DEC											
02...	37	11	2.4	1.1	.1	.7	26	9.0	.1	.2	4.2
JAN											
07...	34	10	2.2	1.3	.1	.7	32	8.0	.6	.2	4.2
FEB											
01...	46	11	4.5	3.7	.3	.7	32	10	.7	.2	4.2
MAR											
01...	53	13	4.9	4.7	.3	.9	33	7.0	.4	.2	4.5
31...	37	11	2.3	1.3	.1	.7	35	6.0	.4	.3	4.3
MAY											
03...	32	9.5	1.9	1.4	.1	.7	27	7.0	.4	.2	4.0
JUN											
01...	26	7.8	1.6	<.6	--	.5	23	5.0	.3	.2	3.1
JUL											
06...	18	5.4	1.1	.6	.1	.4	17	8.0	.2	.2	2.5
AUG											
02...	19	5.6	1.3	.8	.1	.4	19	7.0	.3	.2	2.6
SEP											
01...	29	8.5	1.9	.8	.1	.5	26	7.0	.3	.2	3.3

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N)
OCT										
01...	47	34	.06	7.1	.16	.12	.120	.110	.21	.27
NOV										
02...	44	37	.06	10.2	.10	.14	.110	<.060	--	--
DEC										
02...	47	44	.06	3.8	<.09	.12	.140	.120	.20	.34
JAN										
07...	47	46	.06	3.7	.14	.13	.120	.130	.15	.12
FEB										
01...	50	54	.07	3.9	.14	.13	.150	.110	--	.17
MAR										
01...	45	55	.06	3.1	.13	.14	<.060	.060	--	--
31...	51	41	.07	3.2	.13	.25	.100	.100	11	8.2
MAY										
03...	64	41	.09	70.0	<.10	<.10	.100	.110	.47	.33
JUN										
01...	42	--	.06	72.2	.10	.24	.100	.170	.60	.73
JUL										
06...	28	29	.04	23.7	<.10	<.10	<.070	.070	--	.33
AUG										
02...	31	30	.04	13.1	<.10	<.10	.080	.090	.32	.31
SEP										
01...	32	38	.04	11.8	<.10	<.10	.150	.160	.75	.64

09352900 VALLECITO CREEK NEAR BAYFIELD, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)
OCT										
01...	.33	.00	.38	.49	<.010	.010	--	1.5	.1	>.00
NOV										
02...	<.21	--	.39	--	.010	.010	.8	.8	--	--
DEC										
02...	.34	.00	.46	--	.030	.040	.5	--	--	--
JAN										
07...	.27	.02	.25	.41	.010	.010	.9	--	--	--
FEB										
01...	<.21	--	.28	--	<.010	.010	.7	--	--	--
MAR										
01...	.28	.00	.34	.41	.030	.020	1.0	--	--	--
31...	11.0	2.7	8.3	11	<.010	<.010	.7	--	--	--
MAY										
03...	.57	.13	.44	--	<.010	.010	3.7	--	--	--
JUN										
01...	.70	.00	.90	.80	<.010	.050	--	2.9	--	<.01
JUL										
06...	.50	.10	.40	--	<.010	.050	1.3	--	--	--
AUG										
02...	.40	.00	.40	--	.110	.060	6.7	--	--	--
SEP										
01...	.90	.10	.80	--	.020	.050	1.2	--	--	--

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)
OCT										
01...	1	1	0	17	<1	0	<1	20	4	<3
JUN										
01...	2	1	<100	14	<3	1	<3	<10	<1	<9

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
OCT										
01...	5	<10	10	18	6	<10	<4	10	3	.0
JUN										
01...	3	<30	120	42	1	<30	<12	30	13	<.1

DATE	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
OCT										
01...	.0	<10	0	0	0	0	29	<6.0	10	4
JUN										
01...	<.1	<30	<1	<1	<1	<1	20	<10	10	<12

09352900 VALLECITO CREEK NEAR BAYFIELD, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
JUN									
01...	.3	<1.0	.5	.8	<.4	.8	<.4	.06	.25

DATE	PCB, TOTAL (UG/L)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)
OCT										
01...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)
OCT									
01...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT									
01...	.00	.00	.00	0	.00	.00	.00	.00	.00

09352900 VALLECITO CREEK NEAR BAYFIELD, CO--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					MAY				
01...	0930	56	0	.00	03...	1030	405	10	11
NOV					JUN				
02...	1000	66	0	.00	01...	0930	637	2	10
DEC					JUL				
02...	1140	30	3	.24	06...	0925	314	2	1.7
JAN					AUG				
07...	1145	29	6	4.7	02...	1100	157	6	2.5
FEB					SEP				
01...	0900	29	11	.87	01...	0950	137	2	.74
MAR									
01...	0930	26	7	.48					
31...	0930	23	6	.37					

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.0	6.0	2.0	1.0	.0	.0	.0	.0	.0	.0	2.0	1.0
2	6.0	6.0	4.0	2.0	.0	.0	.0	.0	.0	.0	2.0	.0
3	6.0	6.0	4.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0
4	6.0	6.0	4.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0
5	6.0	6.0	3.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0
6	6.0	4.0	3.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0
7	6.0	3.0	3.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0
8	5.0	5.0	3.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0
9	5.0	3.0	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
10	5.0	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	5.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	4.0	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	2.0	2.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
14	2.0	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	2.0	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	2.0	1.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
17	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	3.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	3.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0
26	3.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0
27	4.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0
28	4.0	4.0	.0	.0	.0	.0	.0	.0	1.0	.0	2.0	1.0
29	4.0	4.0	.0	.0	.0	.0	.0	.0	---	---	2.0	1.0
30	4.0	3.0	.0	.0	.0	.0	.0	.0	---	---	1.0	1.0
31	3.0	2.0	---	---	.0	.0	.0	.0	---	---	1.0	1.0
MONTH	7.0	.0	4.0	.0	.0	.0	.0	.0	1.0	.0	2.0	.0

09352900 VALLECITO CREEK NEAR BAYFIELD, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.0	1.0	---	---	8.0	3.0	11.0	8.0	11.0	6.0	13.0	8.0
2	2.0	2.0	---	---	---	---	12.0	7.0	12.0	10.0	---	---
3	3.0	2.0	6.0	3.0	---	---	13.0	8.0	11.0	10.0	12.0	8.0
4	4.0	3.0	6.0	5.0	9.0	4.0	---	---	13.0	10.0	---	---
5	4.0	3.0	7.0	3.0	8.0	4.0	---	---	14.0	12.0	---	---
6	3.0	3.0	---	---	8.0	3.0	12.0	5.0	---	---	11.0	7.0
7	4.0	3.0	---	---	9.0	4.0	11.0	8.0	---	---	---	---
8	3.0	2.0	7.0	5.0	---	---	11.0	8.0	---	---	---	---
9	4.0	2.0	8.0	7.0	9.0	4.0	12.0	7.0	---	---	---	---
10	4.0	2.0	9.0	8.0	8.0	5.0	13.0	7.0	---	---	---	---
11	4.0	2.0	---	---	9.0	5.0	11.0	6.0	---	---	---	---
12	4.0	2.0	---	---	9.0	5.0	12.0	7.0	---	---	---	---
13	5.0	2.0	---	---	8.0	5.0	12.0	8.0	---	---	12.0	5.0
14	5.0	2.0	10.0	6.0	9.0	5.0	11.0	6.0	---	---	---	---
15	5.0	3.0	---	---	9.0	5.0	12.0	6.0	---	---	9.0	5.0
16	6.0	3.0	---	---	9.0	5.0	12.0	7.0	---	---	---	---
17	5.0	2.0	---	---	8.0	5.0	12.0	8.0	---	---	---	---
18	6.0	3.0	---	---	10.0	6.0	11.0	7.0	---	---	---	---
19	6.0	3.0	---	---	---	---	9.0	7.0	---	---	7.0	6.0
20	4.0	2.0	---	---	9.0	5.0	10.0	7.0	---	---	---	---
21	5.0	3.0	---	---	9.0	7.0	10.0	7.0	---	---	8.0	6.0
22	4.0	3.0	---	---	9.0	7.0	13.0	7.0	---	---	---	---
23	4.0	3.0	---	---	---	---	13.0	9.0	---	---	10.0	7.0
24	8.0	5.0	---	---	---	---	13.0	8.0	---	---	10.0	5.0
25	8.0	5.0	---	---	11.0	6.0	---	---	---	---	---	---
26	8.0	5.0	---	---	12.0	6.0	---	---	---	---	---	---
27	7.0	5.0	---	---	13.0	7.0	---	---	---	---	---	---
28	9.0	5.0	---	---	13.0	9.0	---	---	---	---	---	---
29	---	---	---	---	12.0	9.0	---	---	---	---	---	---
30	---	---	---	---	11.0	8.0	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	9.0	1.0										

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

09353000 VALLECITO RESERVOIR NEAR BAYFIELD, CO

LOCATION.--Lat 37°23'00", long 107°34'30", in SW¼SW¼ sec.18, T.36 N., R.6 W., La Plata County, Hydrologic Unit 14080101, in gatehouse above outlet gates at Vallecito Dam on Los Pinos (Pine) River, 300 ft (91 m) left of spillway, 0.4 mi (0.6 km) upstream from Jack Creek, and 11 mi (18 km) northeast of Bayfield.

PERIOD OF RECORD.--April 1941 to current year.

REVISED RECORDS.--WSP 959: 1941. WSP 1513: 1956.

GAGE.--Water-stage recorder. Datum of gage is 7,580 ft (2,310.4 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations NGVD.

REMARKS.--Reservoir is formed by earth and rockfill dam; dam completed in March 1941. Capacity of reservoir, 126,300 acre-ft (156 hm³) between elevations 7,580 ft (2,310.4 m), sill of outlet gate, and 7,665 ft (2,336.3 m), top of spillway gates. Dead storage, 3,395 acre-ft (4.19 hm³). Figures given are usable contents. Reservoir is used to store water for irrigation in Los Pinos (Pine) River basin.

COOPERATION.--Records furnished by Pine River Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 128,200 acre-ft (158 hm³) July 27, 1957, elevation, 7,665.72 ft (2,336.511 m); minimum, 1,520 acre-ft (1.87 hm³) Oct. 24, 25, 1944, elevation, 7,584.10 ft (2,311.634 m). No usable storage prior to April 1941.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 123,220 acre-ft (152 hm³) July 2, elevation, 7,663.87 ft (2,335.948 m); minimum, 42,530 acre-ft (52.4 hm³) Oct. 3, elevation, 7,628.23 ft (2,325.084 m).

MONTHEND ELEVATION IN FEET NGVD AND CONTENTS, AT 0900, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	7,629.00	43,850	-
Oct. 31	7,634.01	52,980	+9,130
Nov. 30	7,635.33	55,540	+2,560
Dec. 31	7,636.13	57,130	+1,590
CAL YR 1981		-	-1,700
Jan. 31	7,637.22	59,320	+2,190
Feb. 29	7,637.96	60,830	+1,510
Mar. 31	7,639.75	64,570	+3,740
Apr. 30	7,646.72	80,040	+15,470
May 31	7,649.84	87,400	+7,360
June 30	7,663.61	122,520	+35,120
July 31	7,658.99	110,280	-12,240
Aug. 31	7,654.07	97,750	-12,530
Sept. 30	7,656.54	103,980	+6,230
WTR YR 1982			+60,130

09353500 LOS PINOS RIVER NEAR BAYFIELD, CO
(LOCALLY KNOWN AS PINE RIVER)

LOCATION.--Lat 37°22'58", long 107°34'37", in SW¼ sec.18, T.36 N., R.6 W., La Plata County, Hydrologic Unit 14080101, on left side of outlet flume from Vallecito Reservoir, 0.4 mi (0.6 km) upstream from Jack Creek, 2.0 mi (3.2 km) upstream from Red Creek, and 11 mi (18 km) north of Bayfield.

DRAINAGE AREA.--270 mi^2 (700 km^2), approximately.

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder and concrete weir. Datum of gage is 7,582.54 ft (2,311.158 m), National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). See WSP 1713 or 1733 for history of changes prior to Aug. 18, 1956.

REMARKS.--Records good. Flow regulated by Vallecito Reservoir (station 09353000) since April 1941. Transmountain diversions above station by Weminuche Pass and Pine River-Weminuche Pass ditches (see elsewhere in this report).

COOPERATION.--Gage-height record is furnished by Pine River Irrigation District.

AVERAGE DISCHARGE.--13 years (water years 1928-40), 345 ft^3/s (9.770 m^3/s), 250,000 acre-ft/yr (308 hm^3/yr), prior to completion of Vallecito Reservoir, 42 years (water years 1941-82), 353 ft^3/s (9.997 m^3/s), 255,700 acre-ft/yr (315 hm^3/yr), subsequent to completion of Vallecito Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft^3/s (391 m^3/s) July 27, 1957, gage height, 12.2 ft (3.72 m), from floodmarks at supplementary gage, from rating curve extended above 2,500 ft^3/s (71 m^3/s), on basis of slope-area measurement of peak flow (result of automatic spillway gates releasing from Vallecito Reservoir); no flow Apr. 15-25, 1982 (result of no release from Vallecito Reservoir when concrete spillway was being repaired); minimum daily prior to construction of Vallecito Reservoir, 38 ft^3/s (1.08 m^3/s) Dec. 21, 22, 1937.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1885 occurred Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,840 ft^3/s (52.1 m^3/s) at 1100 May 5, gage height, 3.87 ft (1.780 m); no flow Apr. 15-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	474	139	139	62	62	64	35	173	786	1030	710	468
2	469	139	139	62	62	64	35	173	786	1150	705	447
3	406	139	139	62	62	64	35	173	792	1170	705	444
4	341	139	139	62	62	64	35	247	798	1070	710	496
5	334	139	139	62	62	64	35	598	798	906	715	522
6	302	139	91	62	62	64	36	804	804	772	715	527
7	294	139	62	62	62	64	40	922	766	736	710	536
8	294	139	62	62	62	64	40	1100	831	736	710	541
9	291	139	62	62	62	64	40	1170	1020	736	710	541
10	283	139	62	62	62	64	40	1170	1140	736	705	536
11	275	139	62	62	62	64	40	1290	1280	736	705	511
12	264	139	62	62	62	64	40	1360	1340	736	705	449
13	250	139	62	62	62	64	40	1340	1340	720	694	387
14	230	139	62	62	62	64	15	1340	1150	710	679	369
15	186	139	62	62	62	64	.00	1330	958	710	679	369
16	167	139	62	62	62	64	.00	1260	818	700	654	373
17	158	139	62	62	62	64	.00	1160	764	694	563	321
18	158	139	62	62	62	64	.00	1040	708	694	570	373
19	158	139	62	62	62	64	.00	904	741	694	584	373
20	135	139	62	62	62	64	.00	855	775	679	634	373
21	137	139	62	62	62	64	.00	855	738	679	664	373
22	137	139	62	62	62	64	.00	855	715	674	664	377
23	137	139	62	62	64	64	.00	855	710	684	648	377
24	137	139	62	62	64	64	.00	861	710	694	616	377
25	139	139	62	62	64	43	.00	867	705	694	582	377
26	139	139	62	62	64	36	108	799	710	689	570	377
27	139	139	62	62	64	36	173	764	715	689	570	381
28	139	139	62	62	64	36	173	770	720	694	570	381
29	139	139	62	62	---	36	173	770	720	700	570	381
30	139	139	62	62	---	36	173	775	868	705	521	381
31	139	---	62	62	---	36	---	781	---	710	491	---
TOTAL	6990	4170	2336	1922	1748	1795	1306.00	27361	25706	23727	20028	12738
MEAN	225	139	75.4	62.0	62.4	57.9	43.5	883	857	765	646	425
MAX	474	139	139	62	64	64	173	1360	1340	1170	715	541
MIN	135	139	62	62	62	36	.00	173	705	674	491	321
AC-FT	13860	8270	4630	3810	3470	3560	2590	54270	50990	47060	39730	25270

CAL YR 1981 TOTAL 110379.00 MEAN 302 MAX 753 MIN 22 AC-FT 218900
WTR YR 1982 TOTAL 129827.00 MEAN 356 MAX 1360 MIN .00 AC-FT 257500

09354500 LOS PINOS RIVER AT LA BOCA, CO

LOCATION.--Lat 37°00'34", long 107°35'56", in NE¼NW¼ sec.22, T.32 N., R.7 W., La Plata County, Hydrologic Unit 14080101, on downstream end of right abutment of the Denver & Rio Grande Western Railroad Co. bridge, at southeast edge of La Boca, 0.1 mi (0.2 km) upstream from Spring Creek, and 13 mi (21 km) upstream from mouth.

DRAINAGE AREA.--510 mi^2 (1,320 km^2), approximately.

PERIOD OF RECORD.--Streamflow records, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733. Water-quality data available, July 1969 to August 1973.

GAGE.--Water-stage recorder. Datum of gage is 6,143.58 ft (1,872.563 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are poor. Flow regulated by Vallecito Reservoir (station 09353000) 24 mi (39 km) upstream since April 1941. Diversions for irrigation of about 33,000 acres (130 km^2) above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--32 years, 214 ft^3/s (6.060 m^3/s), 155,000 acre-ft/yr (191 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,400 ft^3/s (181 m^3/s) July 27, 1957, gage height, 8.95 ft (2.728 m), from rating curve extended above 5,100 ft^3/s (140 m^3/s); minimum daily, 6.1 ft^3/s (0.17 m^3/s) May 1, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred Oct. 5, 1911, at this location.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,260 ft^3/s (35.7 m^3/s) at 1100 May 12, gage height, 5.75 ft (1.753 m); minimum daily, 55 ft^3/s (1.56 m^3/s) Dec. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	151	163	74	90	154	133	270	214	466	187	222
2	266	151	154	74	90	256	139	302	202	604	187	178
3	571	151	151	70	82	406	122	355	194	664	198	151
4	230	148	151	65	85	310	142	322	194	640	184	154
5	181	148	151	70	80	178	166	604	206	460	172	190
6	145	148	151	75	80	130	163	940	214	302	172	187
7	120	163	92	80	85	133	139	916	214	218	194	210
8	118	160	78	75	85	151	130	1040	151	202	242	266
9	108	151	74	70	90	190	136	1150	346	202	230	278
10	100	151	74	75	90	234	136	1110	478	181	222	294
11	105	145	72	80	90	238	145	1130	664	178	250	598
12	125	133	72	80	98	916	214	1240	804	178	274	732
13	169	130	70	80	100	450	314	1220	812	166	342	616
14	125	136	68	75	105	424	294	1180	746	151	302	685
15	118	139	68	75	98	286	278	1160	466	139	266	294
16	151	139	68	75	95	258	258	1090	326	136	274	270
17	108	139	68	75	95	202	230	972	210	130	226	250
18	80	139	70	75	98	175	214	796	184	136	184	230
19	68	136	70	80	100	160	206	610	133	148	175	238
20	108	136	64	80	100	145	166	466	214	151	190	234
21	157	136	62	80	108	139	110	430	218	133	226	230
22	151	139	62	80	110	133	98	418	184	142	270	222
23	145	136	62	75	108	130	85	418	172	142	266	218
24	151	133	60	70	108	139	76	406	163	136	326	206
25	154	133	55	75	151	151	62	385	157	142	694	218
26	151	133	65	75	136	145	60	330	151	160	592	214
27	160	133	75	80	130	151	166	262	145	157	430	214
28	148	160	62	85	136	139	190	242	154	166	370	226
29	154	194	65	85	---	154	198	218	148	184	302	222
30	151	181	75	85	---	133	206	222	186	184	290	234
31	151	---	82	85	---	118	---	214	---	198	242	---
TOTAL	4805	4372	2654	2378	2823	6928	4976	20418	8650	7196	8479	8481
MEAN	155	146	85.6	76.7	101	223	166	659	288	232	274	283
MAX	571	194	163	85	151	916	314	1240	812	664	694	732
MIN	68	130	55	65	80	118	60	214	133	130	172	151
AC-FT	9530	8670	5260	4720	5600	13740	9870	40500	17160	14270	16820	16820

CAL YR 1981 TOTAL 42208 MEAN 116 MAX 571 MIN 35 AC-FT 83720
WTR YR 1982 TOTAL 82160 MEAN 225 MAX 1240 MIN 55 AC-FT 163000

09355000 SPRING CREEK AT LA BOCA, CO

LOCATION.--Lat 37°00'40", long 107°35'47", in SE¼SW¼ sec.15, T.32 N., R.7 W., La Plata County, Hydrologic Unit 14080101, on right bank in an excavated channel, 0.2 mi (0.3 km) upstream from mouth, and 0.2 mi (0.3 km) east of La Boca.

DRAINAGE AREA.--58 mi^2 (150 km^2), approximately.

PERIOD OF RECORD.--Streamflow records, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733. Water-quality data available, May 1974.

GAGE.--Water-stage recorder. Altitude of gage is 6,160 ft (1,878 m), from topographic map.

REMARKS.--Records good except those for winter period and those for period of no gage-height record, which are poor. Part of flow is return waste from irrigation. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--32 years, 30.6 ft^3/s (0.867 m^3/s), 22,170 acre-ft/yr (27.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft^3/s (56.1 m^3/s) Sept. 6, 1970, gage height, 4.62 ft (1.408 m), from rating curve extended above 160 ft^3/s (4.53 m^3/s), on basis of field estimate of peak flow; maximum gage height, 5.98 ft (1.823 m) Mar. 9, 1960 (backwater from ice); minimum daily discharge, 0.6 ft^3/s (0.017 m^3/s) Nov. 27, 1959.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 180 ft^3/s (5.1 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 3	0800	329	9.32	1.93	0.588	Sept. 12	1200	308	8.72	1.88	0.573
Mar. 2	1830	271	7.67	1.63	0.497	Sept. 14	0200	*470	13.3	2.30	0.701
Aug. 25	0900	193	5.47	1.47	0.448						

Minimum daily discharge, 2.6 ft^3/s (0.074 m^3/s) Dec. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	4.8	4.0	3.4	3.4	69	7.8	33	57	67	80	55
2	114	4.8	3.8	3.2	3.2	170	7.8	25	57	62	84	55
3	213	4.8	3.6	3.0	3.2	176	5.6	26	54	57	84	54
4	67	5.2	3.6	3.0	3.2	108	6.1	27	52	57	82	50
5	59	5.2	4.2	3.0	3.0	64	7.4	32	60	55	80	60
6	55	5.2	4.0	3.2	3.0	40	6.1	27	62	59	72	55
7	55	6.5	4.2	3.2	3.0	37	5.6	27	62	60	76	59
8	54	6.5	4.2	3.0	3.2	40	5.2	24	57	62	86	78
9	52	5.2	4.2	3.0	3.4	39	4.8	34	60	64	92	72
10	50	5.2	4.2	3.2	3.4	40	4.4	27	60	64	82	66
11	55	5.2	4.6	3.2	3.4	34	4.4	26	69	66	90	143
12	57	4.8	4.4	3.2	3.4	96	6.1	37	67	67	94	179
13	60	4.8	4.2	3.4	3.2	34	11	43	69	60	110	144
14	57	4.8	3.6	3.6	3.4	57	9.2	39	69	59	102	181
15	45	4.8	3.6	3.2	3.6	22	7.4	36	66	60	94	47
16	39	4.8	3.8	3.2	4.0	17	6.9	37	62	62	108	45
17	27	4.8	3.4	3.2	4.4	11	6.5	37	60	69	92	50
18	25	4.4	3.0	3.2	4.8	8.5	6.1	34	57	74	80	34
19	24	4.0	3.2	3.4	6.0	7.8	6.1	40	52	71	84	34
20	23	5.2	3.8	3.6	7.0	7.4	6.5	43	54	69	94	37
21	17	4.8	4.0	3.6	9.0	6.5	34	52	62	67	94	37
22	6.5	4.4	3.6	3.4	11	6.1	6.9	59	57	67	100	37
23	6.1	4.4	3.2	3.2	18	5.6	6.9	60	59	82	88	39
24	5.6	4.4	2.6	3.2	14	5.6	6.5	60	62	66	104	39
25	5.2	4.0	2.8	3.2	30	5.6	6.5	60	60	71	140	39
26	5.2	4.0	3.0	3.2	50	6.9	6.5	57	59	88	74	37
27	5.2	3.6	3.6	3.4	69	10	6.9	59	59	88	62	32
28	5.2	4.2	3.0	3.6	71	8.5	12	62	62	98	59	32
29	5.2	4.0	3.2	3.6	---	9.2	11	60	60	82	57	32
30	4.8	4.0	3.6	3.4	---	7.8	26	60	60	80	59	34
31	4.8	---	3.6	3.4	---	6.9	---	60	---	82	59	---
TOTAL	1268.8	142.8	113.8	101.6	347.2	1156.4	254.2	1303	1806	2135	2662	1856
MEAN	40.9	4.76	3.67	3.28	12.4	37.3	8.47	42.0	60.2	68.9	85.9	61.9
MAX	213	6.5	4.6	3.6	71	176	34	62	69	98	140	181
MIN	4.8	3.6	2.6	3.0	3.0	5.6	4.4	24	52	55	57	32
AC-FT	2520	283	226	202	689	2290	504	2580	3580	4230	5280	3680

CAL YR 1981 TOTAL 12221.4 MEAN 33.5 MAX 213 MIN 2.0 AC-FT 24240
WTR YR 1982 TOTAL 13146.8 MEAN 36.0 MAX 213 MIN 2.6 AC-FT 26080

NOTE.--NO GAGE-HEIGHT RECORD NOV. 22 TO JAN. 3.

09357500 ANIMAS RIVER AT HOWARDSVILLE, CO

LOCATION.--Lat 37°49'59", long 107°35'56", San Juan County, Hydrologic Unit 14080104, on right bank 1,000 ft (300 m) downstream from bridge on State Highway 110, 0.4 mi (0.6 km) southwest of Howardsville, and 0.4 mi (0.6 km) downstream from Cunningham Creek.

DRAINAGE AREA.--55.9 mi² (145 km²).

PERIOD OF RECORD.--October 1935 to September 1982 (discontinued). Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 9,616.98 ft (2,931.256 m), National Geodetic Vertical Datum of 1929. Prior to Aug. 18, 1939, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good. No diversion above station. Several observations of water temperature were obtained and are published elsewhere in this report.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

AVERAGE DISCHARGE.--47 years, 102 ft³/s (2.889 m³/s), 73,900 acre-ft/yr (91.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft³/s (56.1 m³/s) June 18, 1949, gage height, 4.36 ft (1.329 m), from rating curve extended above 950 ft³/s (27 m³/s); maximum gage height, 5.24 ft (1.597 m) Feb. 18, 1958 (backwater from snowslide); minimum daily discharge, 9.0 ft³/s (0.25 m³/s) Jan. 10, 1957, Feb. 15, Mar. 9, 1964, Feb. 13, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1885 occurred Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (20 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
June 12	2200	811	23.0	3.25	0.991	June 28	2000	* 954	27.0	3.46	1.055
June 16	2100	818	23.2	3.26	0.994						

Minimum daily discharge, 13 ft³/s (0.37 m³/s) Feb. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	39	29	20	18	18	18	95	455	696	160	147
2	39	43	29	18	17	20	18	142	465	595	168	130
3	49	43	28	18	16	18	18	165	470	560	157	121
4	46	44	27	18	16	18	18	160	480	520	142	121
5	45	43	27	19	15	17	18	147	480	446	128	132
6	44	44	27	19	14	17	18	121	406	370	123	123
7	44	45	26	18	13	18	18	114	406	337	119	121
8	46	44	25	17	14	18	17	108	465	345	116	126
9	45	40	25	18	14	18	17	106	510	361	128	128
10	45	38	25	18	15	19	18	106	555	357	114	130
11	47	40	26	19	15	20	21	110	575	345	106	147
12	51	39	25	19	14	20	27	106	632	345	106	168
13	54	39	25	18	14	19	30	95	644	341	108	176
14	54	39	23	19	16	20	38	86	575	322	142	185
15	55	38	24	20	18	19	45	84	570	314	119	190
16	54	38	24	21	17	19	49	86	622	283	112	200
17	54	35	23	20	16	19	49	91	660	272	108	185
18	52	35	23	20	16	19	54	101	595	255	106	175
19	54	31	23	20	16	17	54	116	505	234	106	180
20	55	31	23	19	17	15	49	112	485	224	151	180
21	54	33	22	19	17	16	44	144	560	214	160	176
22	54	34	22	18	17	16	44	187	550	211	179	165
23	51	34	20	16	18	16	44	208	565	208	224	152
24	50	33	20	18	18	17	42	230	622	193	410	142
25	47	30	22	18	18	18	40	252	654	190	322	130
26	45	29	21	18	17	18	42	300	660	196	294	128
27	50	29	21	18	17	18	40	388	708	214	290	126
28	49	29	19	17	17	18	46	406	741	193	290	121
29	49	30	20	18	---	18	61	450	666	202	230	119
30	46	29	20	17	---	18	72	446	632	187	193	119
31	40	---	20	17	---	18	---	406	---	176	165	---
TOTAL	1505	1098	734	572	450	559	1069	5668	16913	9706	5276	4443
MEAN	48.5	36.6	23.7	18.5	16.1	18.0	35.6	183	564	313	170	148
MAX	55	45	29	21	18	20	72	450	741	696	410	200
MIN	37	29	19	16	13	15	17	84	406	176	106	119
AC-FT	2990	2180	1460	1130	893	1110	2120	11240	33550	19250	10460	8810

CAL YR 1981 TOTAL 26117 MEAN 71.6 MAX 638 MIN 10 AC-FT 51800
WTR YR 1982 TOTAL 47993 MEAN 131 MAX 741 MIN 13 AC-FT 95190

NOTE.--NO GAGE-HEIGHT RECORD DEC. 22 TO FEB. 22.

09361500 ANIMAS RIVER AT DURANGO, CO

LOCATION.--Lat 37°16'45", long 107°52'47", in SW¼SW¼ sec.20, T.35 N., R.9 W., La Plata County, Hydrologic Unit 14080104, on left bank at Western Colorado Power Co.'s plant at Durango, 0.8 mi (1.3 km) upstream from Lightner Creek.

DRAINAGE AREA.--692 mi^2 (1,792 km^2).

PERIOD OF RECORD.--June to December 1895, April 1896 to December 1898, April 1899 to December 1900, March to May 1901, April to November 1902, March to April 1903 (gage heights only, erroneously stated as discredited in WSP 1563), May to October 1903, July 1904 to December 1905, January to December 1910 (gage heights only), January to September 1911, January 1912 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 764: Drainage area. WSP 929: 1927(M). WSP 1243: 1911, 1918(M). WSP 1563: 1911-25 (monthly figures only).

GAGE.--Water-stage recorder. Datum of gage is 6,501.57 ft (1,981.679 m), National Geodetic Vertical Datum of 1929. See WSP 1713 or 1733 for history of changes prior to Mar. 2, 1921.

REMARKS.--Records good. Diversions for irrigation of about 4,000 acres (16 km^2) above station. Natural regulation by many lakes and regulation for power above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--77 years (water years 1897-1900, 1905, 1911-82), 835 ft^3/s (23.65 m^3/s), 605,000 acre-ft/yr (746 nm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft^3/s (708 m^3/s) Oct. 5, 1911, gage height, 11 ft (3.4 m), present site and datum, from rating curve extended above 13,000 ft^3/s (370 m^3/s); minimum daily, 94 ft^3/s (2.66 m^3/s) Mar. 2, 1913.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1885, that of Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,920 ft^3/s (111 m^3/s) at 0900 June 13, gage height, 5.37 ft (1.637 m), no peak above base of 4,000 ft^3/s (110 m^3/s); minimum daily, 180 ft^3/s (5.10 m^3/s) Feb. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	305	387	234	215	212	224	310	1550	3380	3320	960	990
2	315	394	224	200	230	266	315	1810	3430	2920	910	890
3	458	394	224	203	212	250	310	2190	3430	2570	980	820
4	530	380	230	200	230	246	326	2460	3270	2400	930	691
5	506	374	234	206	220	250	362	2530	3370	2140	850	800
6	506	368	234	209	238	230	401	2330	2970	1810	750	770
7	498	408	234	209	220	234	387	1880	2650	1670	770	700
8	498	429	238	200	210	234	368	1690	2810	1520	790	700
9	514	408	227	200	210	242	368	1630	2950	1640	730	810
10	482	394	224	200	200	246	374	1600	3190	1600	720	820
11	474	374	234	200	200	250	415	1560	3180	1610	682	930
12	578	387	230	209	206	295	619	1480	3220	1520	673	1210
13	637	374	224	206	203	290	970	1360	3580	1520	720	1270
14	637	338	224	200	182	285	1140	1270	3290	1420	880	1390
15	619	326	234	200	182	300	1330	1300	3020	1440	890	1400
16	691	326	224	195	182	300	1390	1210	2840	1370	840	1520
17	673	320	221	190	203	300	1360	1190	3190	1260	760	1390
18	628	295	218	192	180	310	1320	1280	3160	1240	700	1310
19	602	285	227	206	182	300	1280	1520	3060	1160	655	1370
20	602	290	224	206	190	285	1190	1510	2530	1150	750	1340
21	594	305	218	192	198	275	1050	1750	2650	1120	970	1380
22	578	290	221	215	215	275	910	2180	2630	1110	1040	1280
23	546	275	224	215	230	275	840	2300	2490	1110	1070	1170
24	522	262	224	195	238	254	780	2300	2540	1080	1880	1080
25	498	266	200	195	246	258	750	2420	2850	1050	2840	990
26	474	270	203	212	230	280	770	2610	2950	990	2600	940
27	450	246	203	218	224	285	800	3340	3130	1040	2080	910
28	443	254	203	221	224	275	880	3190	3300	1150	1870	920
29	436	254	203	224	---	295	1130	3590	3300	1200	1520	870
30	429	254	227	234	---	310	1320	3640	2880	1120	1200	850
31	408	---	209	221	---	290	---	3180	---	1050	1120	---
TOTAL	16131	9927	6898	6388	5897	8409	23765	63850	91240	47300	34130	31511
MEAN	520	331	223	206	211	271	792	2060	3041	1526	1101	1050
MAX	691	429	238	234	246	310	1390	3640	3580	3320	2840	1520
MIN	305	246	200	190	180	224	310	1190	2490	990	655	691
AC-FT	32000	19690	13680	12670	11700	16680	47140	126600	181000	93820	67700	62500

CAL YR 1981 TOTAL 195825 MEAN 537 MAX 3500 MIN 135 AC-FT 388400
WTR YR 1982 TOTAL 345446 MEAN 946 MAX 3640 MIN 180 AC-FT 685200

09363050 FLORIDA RIVER BELOW FLORIDA FARMERS DITCH, NEAR DURANGO, CO

LOCATION.--Lat 37°17'42", long 107°47'28", in SW¼SW¼ sec.18, T.35 N., R.8 W., La Plata County, Hydrologic Unit 14080104, on right bank 30 ft (9 m) downstream from diversion dam for Florida Farmers ditch and 4.0 mi (6.4 km) east of Riverview School in Durango.

DRAINAGE AREA.--108 mi^2 (280 km^2).

PERIOD OF RECORD.--October 1967 to September 1982 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 7,065.35 ft (2,153.519 m), National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Lemon Reservoir, capacity, 40,100 acre-ft (49.4 hm^3). Diversions above station for irrigation above and below station and for municipal supply of Durango. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--15 years, 39.1 ft^3/s (1.107 m^3/s), 28,330 acre-ft/yr (34.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft^3/s (31.2 m^3/s) May 19, 1973, gage height, 5.70 ft (1.737 m); minimum daily, 0.70 ft^3/s (0.020 m^3/s) Oct. 14, 1968, Oct. 17, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 424 ft^3/s (12.0 m^3/s) at 1200 June 2, gage height, 4.07 ft (1.241 m); minimum daily, 1.7 ft^3/s (0.048 m^3/s) Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	4.4	4.0	5.5	5.6	8.9	26	73	260	196	5.2	3.8
2	4.4	4.4	3.8	5.0	5.4	11	26	198	409	182	5.2	3.8
3	4.6	5.2	4.0	5.0	5.2	9.2	26	330	388	116	5.0	3.8
4	4.2	5.0	4.6	5.2	5.0	8.5	30	318	378	90	5.0	3.8
5	3.6	4.8	5.0	5.5	4.6	6.4	35	345	370	60	4.8	3.6
6	3.3	4.6	5.4	6.0	4.6	6.4	34	335	368	28	4.8	3.4
7	2.8	4.4	5.4	5.5	4.8	6.6	31	320	365	6.6	4.8	3.4
8	2.6	4.4	5.2	5.0	5.0	7.4	30	310	302	6.4	4.8	3.6
9	2.6	4.2	5.0	5.0	5.0	5.9	29	305	192	6.6	4.8	3.4
10	2.5	4.4	5.4	5.5	5.0	6.4	30	280	101	6.9	4.6	6.1
11	2.5	4.6	5.6	5.5	4.8	8.2	36	272	49	15	4.6	10
12	2.5	4.6	5.4	6.0	4.8	34	45	280	45	5.6	4.6	13
13	2.2	4.8	5.0	5.5	5.0	29	54	189	43	5.0	4.8	17
14	2.0	4.8	4.6	5.0	5.0	26	54	67	39	4.6	4.6	26
15	1.7	4.8	4.0	5.0	5.0	24	54	60	35	3.8	4.6	36
16	4.7	4.6	3.3	5.5	5.0	21	52	53	35	4.2	4.6	43
17	11	4.4	2.3	5.0	5.0	20	49	45	31	5.9	4.8	52
18	9.9	4.8	3.3	5.5	5.0	19	47	34	24	5.6	4.8	70
19	8.5	4.4	4.2	5.5	5.5	18	45	27	72	5.4	4.6	96
20	6.4	5.9	4.4	5.5	6.0	16	42	16	122	4.8	4.6	108
21	6.1	5.6	4.4	5.0	6.4	16	39	15	73	4.0	4.6	157
22	5.6	5.6	3.1	4.8	7.2	16	36	17	49	3.8	4.6	212
23	5.4	5.6	2.5	4.8	7.7	16	37	20	35	4.2	4.4	212
24	5.4	5.6	2.0	4.8	7.7	16	35	20	33	5.0	4.4	212
25	5.6	5.4	3.1	4.8	7.7	18	34	17	120	5.0	4.4	212
26	5.6	4.2	3.4	5.0	8.2	20	41	15	268	5.2	4.0	198
27	5.2	4.2	4.4	5.0	7.7	20	67	18	255	6.4	4.0	190
28	5.2	4.4	4.0	5.0	8.9	20	49	20	220	5.9	3.8	190
29	5.0	5.5	4.0	5.0	---	21	54	22	200	5.6	3.8	100
30	5.0	5.0	4.4	5.0	---	21	54	75	166	5.4	3.6	70
31	4.8	---	5.0	5.5	---	21	---	220	---	5.2	3.6	---
TOTAL	146.3	144.6	130.2	161.9	162.8	496.9	1221	4316	5047	814.1	140.8	2262.7
MEAN	4.72	4.82	4.20	5.22	5.81	16.0	40.7	139	168	26.3	4.54	75.4
MAX	11	5.9	5.6	6.0	8.9	34	67	345	409	196	5.2	212
MIN	1.7	4.2	2.0	4.8	4.6	5.9	26	15	24	3.8	3.6	3.4
AC-FT	290	287	258	321	323	986	2420	8560	10010	1610	279	4490

CAL YR 1981 TOTAL 2538.0 MEAN 6.95 MAX 24 MIN 1.3 AC-FT 5030
WTR YR 1982 TOTAL 15044.3 MEAN 41.2 MAX 409 MIN 1.7 AC-FT 29840

09363100 SALT CREEK NEAR OXFORD, CO

LOCATION.--Lat 37°08'23", long 107°45'10", in NE¼NE¼ sec.6, T.33 N., R.8 W., La Plata County, Hydrologic Unit 14080104, on right bank 2.9 mi (4.7 km) upstream from mouth, 3.0 mi (4.8 km) southwest of Oxford, and 11 mi (18 km) southeast of Durango.

DRAINAGE AREA.--16.7 mi^2 (43.3 km^2).

PERIOD OF RECORD.--October 1956 to September 1963, October 1967 to current year.

REVISED RECORDS.--WSP 1925: 1960.

GAGE.--Water-stage recorder. Altitude of gage is 6,470 ft (1,972 m), from topographic map. Prior to October 1967, at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good except those for winter period and those for period of no gage-height record, which are poor. Most of flow is return flow from areas irrigated by water imported from Los Pinos River. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--22 years, 12.2 ft^3/s (0.346 m^3/s), 8,840 acre-ft/yr (10.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 811 ft^3/s (23.0 m^3/s) Oct. 19, 1972, gage height, 5.24 ft (1.597 m), from rating curve extended above 200 ft^3/s (5.7 m^3/s), on basis of slope-area measurements at gage heights 3.54 and 5.24 ft (1.079 and 1.597 m); no flow at times in 1959-60, 1962, 1977, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 285 ft^3/s (8.07 m^3/s) at 0700 Mar. 12, gage height, 4.01 ft (1.222 m); minimum daily, 0.25 ft^3/s (0.007 m^3/s) Apr. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	8.3	1.8	.50	.50	13	1.1	.60	16	22	32	18
2	45	8.6	1.3	.48	.50	31	.70	.55	17	25	31	16
3	101	8.6	1.2	.46	.50	58	.65	.40	20	25	29	15
4	33	8.9	1.2	.44	.50	35	.55	.40	20	26	31	17
5	25	9.2	1.3	.50	.48	18	.45	.55	20	24	31	23
6	22	9.2	1.4	.50	.48	13	.50	16	20	23	31	17
7	19	11	1.3	.50	.50	13	.45	19	20	20	32	17
8	20	11	1.2	.46	.56	17	.35	12	21	19	32	22
9	18	9.5	1.2	.46	.56	31	.40	19	20	21	35	23
10	16	8.6	1.2	.50	.56	31	.30	16	23	21	31	25
11	16	11	1.2	.50	.54	37	.35	13	21	21	35	48
12	20	12	1.1	.50	.56	161	.30	10	22	22	37	65
13	25	12	1.1	.50	.58	21	.35	8.3	20	24	47	88
14	21	12	.97	.45	.60	23	.35	10	18	24	45	96
15	19	12	.79	.46	.60	13	.35	10	19	21	44	27
16	20	13	.79	.48	.60	13	.30	11	18	22	44	23
17	15	13	.70	.48	.65	5.0	.30	11	17	25	37	23
18	12	13	.60	.50	.70	3.2	.30	13	18	22	29	25
19	11	13	.70	.50	.88	2.5	.30	9.5	19	23	28	25
20	10	13	.79	.50	1.1	2.0	.25	11	22	23	26	24
21	8.6	13	.88	.48	1.2	1.6	.50	12	24	22	27	24
22	8.3	13	.97	.46	1.9	1.4	.70	14	21	19	35	23
23	8.6	13	.50	.46	6.7	1.2	.79	13	19	18	33	20
24	8.3	13	.50	.46	4.6	1.1	.70	13	18	20	46	20
25	8.0	13	.55	.48	5.7	.97	.50	13	15	22	28	20
26	7.4	13	.55	.50	7.4	1.2	.40	13	17	22	23	20
27	7.2	13	.60	.50	8.0	1.8	.45	13	15	24	12	18
28	7.6	9.2	.55	.50	9.2	1.3	.45	13	15	22	8.0	19
29	7.8	4.0	.50	.50	---	1.2	.40	17	16	31	12	21
30	7.6	2.4	.50	.54	---	1.2	.35	16	16	30	27	23
31	7.6	---	.55	.54	---	1.2	---	16	---	32	20	---
TOTAL	579.0	323.5	28.49	15.09	56.65	554.87	13.84	344.30	567	715	958.0	845
MEAN	18.7	10.8	.92	.49	2.02	17.9	.46	11.1	18.9	23.1	30.9	28.2
MAX	101	13	1.8	.54	9.2	161	1.1	19	24	32	47	96
MIN	7.2	2.4	.50	.44	.48	.97	.25	.40	15	18	8.0	15
AC-FT	1150	642	57	30	112	1100	27	683	1120	1420	1900	1680

CAL YR 1981 TOTAL 3500.62 MEAN 9.59 MAX 101 MIN .16 AC-FT 6940
WTR YR 1982 TOTAL 5000.74 MEAN 13.7 MAX 161 MIN .25 AC-FT 9920

NOTE.--NO GAGE-HEIGHT RECORD JAN. 15 TO FEB. 16.

09363200 FLORIDA RIVER AT BONDAD, CO

LOCATION.--Lat 37°03'24", long 107°52'09", in NE¼SW¼ sec.31, T.33 N., R.9 W., La Plata County, Hydrologic Unit 14080104, on left bank 40 ft (12 m) downstream from BIA bridge, 0.6 mi (1.0 km) upstream from mouth, 0.7 mi (1.1 km) northeast of Bondad, and 15 mi (24 km) south of Durango.

DRAINAGE AREA.--221 mi² (572 km²).

PERIOD OF RECORD.--October 1956 to September 1963, October 1967 to current year.

REVISED RECORDS.--WSP 1713: 1958.

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft (1,829 m), from topographic map. Prior to Sept. 11, 1958, at site 300 ft (91 m) upstream at datum 2.39 ft (0.728 m) higher.

REMARKS.--Records good except those for winter period, which are poor. Diversion for irrigation of about 20,000 acres (81 km²) above station. Flow regulated by Lemon Reservoir, capacity, 40,100 acre-ft (49.4 hm³) since November 1963. Most of flow is return flow from irrigated areas. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--7 years (water years 1957-63), 78.8 ft³/s (2.203 m³/s), 56,370 acre-ft/yr (69.5 hm³/yr), prior to completion of Lemon Dam; 15 years (water years 1968-82), 73.4 ft³/s (2.079 m³/s), 53,180 acre-ft/yr (65.6 hm³/yr), subsequent to completion of Lemon Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,640 ft³/s (46.4 m³/s) Oct. 19, 1972, gage height, 6.30 ft (1.920 m), from rating curve extended above 1,100 ft³/s (31 m³/s), on basis of slope-area measurement of peak flow; minimum daily, 4.6 ft³/s (0.13 m³/s) July 24, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 414 ft³/s (11.7 m³/s) at 0800 June 2, gage height, 4.68 ft (1.426 m); minimum daily, 19 ft³/s (0.54 m³/s) Dec. 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	32	27	30	26	44	41	58	294	221	74	56
2	71	32	28	26	26	70	42	82	410	258	78	58
3	203	32	30	27	26	121	41	314	390	212	74	54
4	107	32	28	24	24	89	42	326	394	177	72	55
5	74	33	30	26	24	52	46	335	370	167	71	80
6	70	33	27	28	22	40	49	349	366	86	72	52
7	58	41	27	30	24	37	47	335	370	71	74	50
8	54	35	26	26	24	41	45	317	356	60	75	59
9	53	34	26	26	26	45	44	317	270	52	86	66
10	47	32	26	28	26	61	43	308	210	50	80	65
11	50	33	26	28	26	67	44	281	114	48	86	120
12	58	35	26	28	24	291	50	294	88	53	84	175
13	70	35	26	28	24	156	66	284	86	49	92	173
14	63	34	27	26	26	134	66	149	86	50	95	216
15	59	35	26	26	26	84	67	109	80	47	95	130
16	58	35	25	26	26	104	66	104	76	45	86	120
17	46	35	22	26	26	60	61	92	72	50	81	132
18	42	35	22	26	26	52	60	88	71	49	76	155
19	41	34	22	28	26	49	56	70	68	51	71	195
20	39	37	22	28	29	45	55	59	175	50	68	189
21	37	42	20	28	31	44	54	50	169	51	70	195
22	35	43	19	26	33	42	52	40	104	47	90	281
23	35	42	19	24	34	39	53	49	93	46	82	281
24	34	51	20	24	36	38	51	54	80	48	127	281
25	33	46	22	24	47	36	48	49	86	51	98	284
26	32	46	28	26	42	39	47	39	255	54	116	275
27	32	39	26	26	39	48	76	39	296	56	68	258
28	32	38	24	26	40	42	53	41	265	68	55	262
29	32	36	28	26	---	42	52	40	232	87	53	248
30	32	35	28	26	---	43	55	41	218	81	67	151
31	31	---	30	26	---	42	---	205	---	75	68	---
TOTAL	1678	1102	783	823	809	2097	1572	4918	6144	2510	2484	4716
MEAN	54.1	36.7	25.3	26.5	28.9	67.6	52.4	159	205	81.0	80.1	157
MAX	203	51	30	30	47	291	76	349	410	258	127	284
MIN	31	32	19	24	22	36	41	39	68	45	53	50
AC-FT	3330	2190	1550	1630	1600	4160	3120	9750	12190	4980	4930	9350

CAL YR 1981 TOTAL 12499 MEAN 34.2 MAX 203 MIN 12 AC-FT 24790
WTR YR 1982 TOTAL 29636 MEAN 81.2 MAX 410 MIN 19 AC-FT 58780

09363500 ANIMAS RIVER NEAR CEDAR HILL, NM

LOCATION.--Lat 37°02'17", long 107°52'25", in sec.7, T.32 N., R.9 W., La Plata County, CO, Hydrologic Unit 14080104, on right bank 0.8 mi (1.3 km) downstream from Florida River, 2.5 mi (4.0 km) upstream from Colorado-New Mexico State line, 8.5 mi (13.7 km) north of Cedar Hill, and at mile 32.9 (km 52.9).

DRAINAGE AREA.--1,090 mi² (2,820 km²), approximately.

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only for October and November 1933, published in WSP 1313.

REVISED RECORDS.--WSP 1563: 1940 and 1946 (monthly figures only).

GAGE.--Water-stage recorder. Altitude of gage is 5,960 ft (1,817 m), from topographic map. Prior to Sept. 14, 1937, at datum between 1.52 and 1.36 ft (0.46 and 0.41 m) higher. Sept. 15, 1937, to Sept. 30, 1946, at datum 1.36 ft (0.41 m) higher.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 20,000 acres (81 km²) above station. During water years 1944-49, Twin Rocks Canal diverted above station for irrigation below. Slight regulation by Lemon Dam, capacity, 40,100 acre-ft (49.4 hm³), about 30 mi (50 km) upstream on Florida River since November 1963.

AVERAGE DISCHARGE.--49 years, 895 ft³/s (25.35 m³/s), 648,400 acre-ft/yr (799 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,100 ft³/s (371 m³/s) June 19, 1949, gage height, 11.45 ft (3.490 m); minimum, 63 ft³/s (1.78 m³/s) Jan. 21, 1935.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood in October 1911 exceeded all other known floods at this location.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,180 ft³/s (118 m³/s) at 1215 June 3, gage height, 7.48 ft (2.280 m), only peak above base of 4,000 ft³/s (110 m³/s); minimum daily, 201 ft³/s (5.69 m³/s) Feb. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	336	442	282	247	255	295	414	1550	3690	3330	1110	1150
2	395	449	275	238	252	320	395	1800	3880	3270	997	1060
3	670	447	257	220	254	395	390	2050	3850	2770	1090	972
4	622	443	258	208	251	356	380	2280	3690	2540	1070	879
5	573	440	259	208	260	334	390	2580	3790	2250	985	909
6	556	428	262	220	250	315	415	3080	3440	1920	881	945
7	552	459	253	231	237	302	450	2360	3130	1730	876	850
8	560	487	254	237	250	300	450	2180	3180	1580	919	851
9	563	470	245	242	260	300	430	2090	3240	1650	876	909
10	551	444	242	245	243	310	420	2030	3400	1620	877	945
11	538	429	246	245	250	340	494	1960	3350	1620	848	1210
12	608	430	246	242	241	390	630	1920	3330	1550	819	1440
13	688	432	238	239	234	520	970	1790	3620	1530	847	1530
14	676	401	234	238	238	470	1140	1530	3420	1460	992	1650
15	672	387	242	237	233	449	1350	1490	3120	1460	1080	1540
16	714	384	238	237	229	442	1420	1460	2930	1420	983	1660
17	701	381	234	238	226	405	1400	1400	3210	1350	948	1590
18	660	364	242	239	201	375	1380	1470	3240	1310	851	1520
19	644	341	258	239	213	345	1280	1620	3180	1240	809	1600
20	637	341	226	239	224	335	1200	1670	2780	1220	844	1550
21	625	354	234	238	235	325	1100	1820	2780	1200	1080	1610
22	612	362	223	237	250	315	1000	2200	2760	1180	1150	1620
23	582	340	238	237	268	312	900	2360	2580	1170	1200	1510
24	548	339	235	234	275	308	820	2380	2590	1150	1680	1410
25	542	328	231	232	318	303	778	2470	2900	1120	2770	1350
26	526	336	231	232	305	308	778	2660	3200	1090	2860	1290
27	500	303	232	235	293	330	815	3360	3410	1110	2210	1240
28	495	292	230	240	290	340	880	3350	3520	1260	1940	1250
29	494	302	228	243	---	350	1100	3680	3500	1360	1660	1210
30	489	304	232	250	---	360	1250	3750	3140	1300	1390	1090
31	482	---	233	253	---	385	---	3490	---	1220	1290	---
TOTAL	17811	11659	7538	7320	7035	10934	24819	69830	97850	49980	37932	38340
MEAN	575	389	243	236	251	353	827	2253	3262	1612	1224	1278
MAX	714	487	282	253	318	520	1420	3750	3880	3330	2860	1660
MIN	336	292	223	208	201	295	380	1400	2580	1090	809	850
AC-FT	35330	23130	14950	14520	13950	21690	49230	138500	194100	99140	75240	76050

CAL YR 1981 TOTAL 224033 MEAN 614 MAX 3640 MIN 150 AC-FT 444400
WTR YR 1982 TOTAL 381048 MEAN 1044 MAX 3880 MIN 201 AC-FT 755800

09365500 LA PLATA RIVER AT HESPERUS, CO

LOCATION.--Lat 37°17'23", long 108°02'24", in NE¼SW¼ sec.14, T.35 N., R.11 W., La Plata County, Hydrologic Unit 14080105, on right bank at Hesperus 700 ft (213 m) downstream from U.S. Highway 160.

DRAINAGE AREA.--37 mi^2 (96 km^2), approximately.

PERIOD OF RECORD.--June to August 1904, May 1905 to September 1906, August to November 1910, June 1917 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for Nov. 11 to Dec. 31, 1910, published in WSP 289, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1243: 1906(M). WSP 1563: 1923 (monthly figures only). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 8,104.71 ft (2,470.316 m), National Geodetic Vertical Datum of 1929. Prior to May 1, 1920, nonrecording gage, and May 1, 1920, to May 24, 1927, water-stage recorder, at several sites about 600 ft (180 m) downstream at different datums. May 25, 1927, to Sept. 30, 1938, water-stage recorder at site 60 ft (18 m) downstream and Oct. 1, 1938, to Sept. 30, 1941, at present site at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good. Cherry Creek ditch exports water above station for irrigation of about 2,000 acres (8.09 km^2) in Cherry Creek drainage. Several observations of water temperature were obtained and are published elsewhere in this report.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

AVERAGE DISCHARGE.--66 years (water years 1906, 1918-82), 44.6 ft^3/s (1.263 m^3/s), 32,310 acre-ft/yr (39.8 hm^3/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood observed occurred Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 230 ft^3/s (6.5 m^3/s) and maximum (*):

		Discharge		Gage height				Discharge		Gage height	
Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)	Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)
May 4	0100	260	7.36	2.82	0.860	Aug. 25	0700	* 410	11.6	3.12	0.951
May 27	0100	345	9.77	2.79	0.850						

Minimum daily discharge, 4.0 ft^3/s (0.113 m^3/s) Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	14	9.5	8.2	5.5	7.3	13	181	239	101	21	47
2	14	13	9.0	7.5	5.5	8.2	14	169	215	70	20	41
3	21	13	9.0	7.0	5.5	8.6	14	219	228	61	20	38
4	19	13	8.6	6.5	5.5	8.6	16	225	215	54	17	37
5	21	14	8.2	7.5	4.5	8.6	18	209	219	43	16	37
6	23	16	7.7	8.0	4.0	8.6	19	158	187	37	14	33
7	24	16	7.7	6.5	5.0	8.6	19	129	169	37	16	31
8	23	15	7.7	6.0	6.0	8.6	20	118	175	33	17	28
9	21	14	8.2	6.5	5.5	9.0	21	113	184	33	15	27
10	20	14	8.2	6.5	6.0	9.5	22	111	187	33	16	28
11	21	13	8.6	7.0	6.5	11	23	109	178	32	16	37
12	24	13	8.6	7.0	5.5	16	45	101	193	31	18	44
13	23	12	8.6	6.0	6.0	14	58	90	187	31	19	44
14	23	12	7.7	6.5	6.2	13	109	79	155	31	23	43
15	24	12	8.2	6.5	6.2	14	124	79	139	31	18	47
16	24	12	8.2	7.0	6.6	13	122	76	134	28	16	59
17	23	11	8.2	7.3	6.9	12	115	79	144	29	16	56
18	22	11	8.2	6.6	6.6	11	115	99	147	29	19	53
19	23	11	8.2	6.2	6.6	11	115	127	150	30	21	52
20	23	11	8.2	6.2	6.6	11	99	124	122	28	21	51
21	23	11	8.6	6.6	6.9	10	83	172	111	27	29	47
22	23	10	8.2	6.6	7.3	10	67	219	107	25	51	44
23	23	10	7.5	6.5	7.3	11	59	206	101	24	58	41
24	23	10	7.0	6.2	7.3	11	53	190	99	23	170	37
25	22	10	7.3	6.2	7.3	11	51	187	101	24	284	34
26	21	9.5	7.0	6.2	7.3	12	52	219	99	25	160	32
27	18	9.5	6.9	5.8	6.9	12	53	264	101	24	111	31
28	18	10	6.5	5.5	7.3	13	68	225	99	43	86	31
29	18	10	7.3	5.5	---	13	118	272	86	34	68	28
30	17	10	7.3	5.5	---	13	152	272	78	28	59	26
31	15	---	7.7	5.5	---	13	---	219	---	24	52	---
TOTAL	649	360.0	247.8	202.6	174.3	340.6	1857	5040	4549	1103	1487	1184
MEAN	20.9	12.0	7.99	6.54	6.23	11.0	61.9	163	152	35.6	48.0	39.5
MAX	24	16	9.5	8.2	7.3	16	152	272	239	101	284	59
MIN	12	9.5	6.5	5.5	4.0	7.3	13	76	78	23	14	26
AC-FT	1290	714	492	402	346	676	3680	10000	9020	2190	2950	2350

CAL YR 1981 TOTAL 9103.2 MEAN 24.9 MAX 219 MIN 4.5 AC-FT 18060
WTR YR 1982 TOTAL 17194.3 MEAN 47.1 MAX 284 MIN 4.0 AC-FT 34100

09366500 LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE

LOCATION.--Lat 36°59'51", long 108°11'17", in NW¼SE¼ sec.10, T.32 N., R.13 W., La Plata County, CO, Hydrologic Unit 14080105, on right bank at Colorado-New Mexico State line, 0.2 mi (0.3 km) downstream from Ponds Arroyo, and 4.8 mi (7.7 km) north of La Plata, NM.

DRAINAGE AREA.--331 mi^2 (857 km^2).

PERIOD OF RECORD.--January 1920 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1934(M), 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 5,975.15 ft (1,821.226 m), National Geodetic Vertical Datum of 1929. See WSP 1713 or 1733 for history of changes prior to Mar. 17, 1934.

REMARKS.--Records good. Diversions above station for irrigation of about 15,000 acres (60.7 km^2), mostly above station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

AVERAGE DISCHARGE.--62 years, 34.6 ft^3/s (0.980 m^3/s), 25,070 acre-ft/yr (30.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,750 ft^3/s (135 m^3/s) Aug. 24, 1927, gage height, 11.36 ft (3.463 m), present datum, from rating curve extended above 750 ft^3/s (21 m^3/s), on basis of slope-area measurement of peak flow; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 680 ft^3/s (19.3 m^3/s) at 0430 Oct. 3, gage height, 3.73 ft (1.137 m); minimum daily, 2.4 ft^3/s (0.068 m^3/s) Oct. 1.

CORRECTIONS.--The date of occurrence of the maximum discharge for water year 1981 was published in error. The correct date is July 13. This date supersedes that published in WDR-CO-81-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	13	9.5	10	9.5	17	38	107	73	77	17	27
2	3.8	13	13	10	8.5	21	39	123	80	60	14	22
3	76	12	13	8.0	9.5	23	37	131	82	55	15	18
4	13	10	13	6.2	9.5	20	36	173	63	50	12	18
5	8.0	9.5	13	10	7.0	18	39	232	74	37	9.0	16
6	5.8	9.5	13	11	6.0	15	41	192	67	32	9.0	14
7	5.4	11	13	8.0	7.0	16	40	129	77	30	31	12
8	5.5	12	13	6.5	7.5	16	38	83	78	27	29	15
9	5.5	9.5	12	8.0	7.0	16	38	63	80	26	13	17
10	6.0	8.5	12	8.5	9.0	16	38	59	74	24	10	15
11	7.0	8.5	12	9.0	9.5	19	40	52	73	21	8.5	26
12	8.0	8.5	13	9.0	8.5	67	54	52	83	18	7.5	43
13	9.0	8.5	12	8.5	9.5	102	101	63	79	20	5.4	34
14	8.5	8.0	12	9.0	9.5	61	124	66	68	21	6.2	43
15	8.5	8.0	12	9.0	10	58	164	50	74	21	5.8	21
16	8.5	7.0	12	9.5	11	48	164	47	74	19	6.6	15
17	9.5	5.8	11	10	12	41	152	41	73	18	6.2	14
18	9.5	4.4	11	10	13	40	140	42	72	19	5.8	14
19	10	4.8	13	11	16	39	132	54	75	21	5.4	15
20	10	5.4	12	9.5	16	36	103	63	73	22	42	13
21	10	5.1	12	9.5	16	34	96	70	78	16	23	13
22	10	5.4	11	10	16	32	97	90	82	16	14	14
23	10	6.6	10	9.5	15	31	82	72	78	14	16	14
24	12	7.0	12	9.0	16	31	73	73	74	10	79	14
25	13	6.2	15	9.5	23	31	54	73	79	9.0	156	15
26	14	6.6	12	10	19	36	50	72	70	9.5	126	14
27	14	5.8	15	10	18	44	48	110	74	12	69	14
28	14	6.6	11	10	17	41	44	68	74	33	43	15
29	14	12	13	10	---	41	52	88	67	36	30	14
30	14	10	13	9.0	---	39	79	95	56	32	33	13
31	13	---	10	9.0	---	35	---	62	---	24	36	---
TOTAL	357.9	248.2	378.5	286.2	335.5	1084	2233	2695	2224	829.5	883.4	552
MEAN	11.5	8.27	12.2	9.23	12.0	35.0	74.4	86.9	74.1	26.8	28.5	18.4
MAX	76	13	15	11	23	102	164	232	83	77	156	43
MIN	2.4	4.4	9.5	6.2	6.0	15	36	41	56	9.0	5.4	12
AC-FT	710	492	751	568	665	2150	4430	5350	4410	1650	1750	1090

CAL YR 1981 TOTAL 6481.5 MEAN 17.8 MAX 585 MIN 1.2 AC-FT 12860
WTR YR 1982 TOTAL 12107.2 MEAN 33.2 MAX 232 MIN 2.4 AC-FT 24010

09370820 MANCOS RIVER BELOW JOHNSON CANYON, NEAR CORTEZ, CO

LOCATION.--Lat 37°05'57", long 108°27'56", in NE¼ sec.15, T.33 N., R.15 W., Montezuma County, Hydrologic Unit 14080107, on right bank downstream from bridge, 600 ft (183 m) downstream from Johnson Canyon, 16 mi (26 km) southeast of Towac, and 18 mi (29 km) southeast of Cortez.

DRAINAGE AREA.--320 mi^2 (829 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1979 to September 1982 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,670 ft (1,728 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Flow regulated by Jackson Gulch Reservoir, capacity 10,000 acre-ft (12.3 hm^3) 20 mi (32 km) upstream on Jackson Canyon. Reservoir is fed by water diverted from the West Mancos River. Diversions for irrigation of about 12,000 acres (49 km^2) above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,020 ft^3/s (85.5 m^3/s) July 13, 1981, gage height, 7.62 ft (2.323 m) present site and datum, from rating curve extended above 263 ft^3/s (7.4 m^3/s), on basis of slope-area measurement of peak flow; minimum daily, 4.1 ft^3/s (0.12 m^3/s) May 15, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,820 ft^3/s (79.9 m^3/s) at 0100 Aug. 25, gage height, 7.24 ft (2.207 m); minimum daily, 9.0 ft^3/s (0.25 m^3/s) Dec. 24, 26, 29, Jan. 3, 5, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	27	16	10	12	50	47	197	171	34	36	108
2	21	27	15	10	11	59	48	205	169	34	33	92
3	144	27	20	9.0	12	67	46	378	162	29	39	85
4	60	26	22	11	14	46	46	402	148	26	29	80
5	43	26	22	9.0	14	31	53	441	144	26	21	79
6	40	26	18	10	16	22	47	318	130	23	18	72
7	36	26	16	11	17	23	41	242	118	23	19	67
8	35	34	17	11	18	27	37	199	112	22	30	76
9	31	29	16	9.0	22	24	34	154	111	19	24	77
10	27	26	17	11	20	27	32	136	108	17	22	76
11	25	26	17	12	20	35	37	132	99	18	20	131
12	34	22	16	13	18	212	59	132	90	18	18	132
13	44	21	16	13	17	126	142	150	88	15	18	113
14	40	21	14	12	16	68	171	183	83	15	26	151
15	38	21	11	12	16	67	171	181	70	15	22	77
16	61	19	12	11	18	68	164	164	59	13	22	73
17	49	19	13	12	18	68	148	154	35	14	19	68
18	44	18	10	13	19	55	141	142	40	15	18	65
19	43	15	10	13	20	48	158	148	34	16	18	65
20	42	14	11	12	24	47	144	130	36	17	18	62
21	40	15	12	12	28	38	128	146	36	17	39	59
22	37	16	12	13	34	34	116	183	40	17	37	55
23	37	18	10	12	38	33	110	181	44	16	34	51
24	36	18	9.0	11	41	32	104	165	38	15	269	46
25	36	18	9.5	12	50	34	110	153	38	15	664	43
26	35	16	9.0	12	43	41	118	144	38	20	324	40
27	32	15	10	12	38	56	124	215	37	26	247	40
28	31	14	10	11	45	53	129	219	37	27	197	46
29	32	28	9.0	13	---	57	154	225	33	31	159	47
30	31	25	10	12	---	52	183	232	29	41	140	46
31	30	---	11	12	---	43	---	199	---	42	120	---
TOTAL	1247	653	420.5	356.0	659	1643	3042	6250	2377	676	2700	2222
MEAN	40.2	21.8	13.6	11.5	23.5	53.0	101	202	79.2	21.8	87.1	74.1
MAX	144	34	22	13	50	212	183	441	171	42	664	151
MIN	13	14	9.0	9.0	11	22	32	130	29	13	18	40
AC-FT	2470	1300	834	706	1310	3260	6030	12400	4710	1340	5360	4410

CAL YR 1981 TOTAL 8446.5 MEAN 23.1 MAX 930 MIN 4.1 AC-FT 16750
WTR YR 1982 TOTAL 22245.5 MEAN 60.9 MAX 664 MIN 9.0 AC-FT 44120

09370820 MANCOS RIVER BELOW JOHNSON CANYON, NEAR CORTEZ, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1979 to current year (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 1979 to current year.
WATER TEMPERATURES: June 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since June 1979.

REMARKS.--Daily maximum and minimum specific conductance available in district office. This station provides equivalent record for station 09370800 located 0.8 mi (0.6 km) upstream, discontinued June 1979.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,940 micromhos Aug. 15, 1980; minimum, 269 micromhos June 11, 1980.
WATER TEMPERATURES: Maximum, 33.5°C Aug. 11, 1979; minimum, 0.0°C on many days during winter months each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,320 micromhos Dec. 3; minimum, 378 micromhos May 22.
WATER TEMPERATURES: Maximum observed, 29.5°C Aug. 18; minimum, 0.0°C many days during November to February.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)
OCT 26...	1350	32	1180	1200	7.9	9.0	9.4	630
DEC 07...	0930	24	1700	1900	7.9	.0	11.6	950
JAN 12...	1000	11	2000	1950	--	.0	11.6	990
FEB 16...	0940	17	1700	1980	7.9	.0	11.7	920
MAR 16...	0915	72	1420	1960	8.1	5.5	10.2	700
APR 19...	0845	176	450	412	7.5	6.0	9.9	180
MAY 20...	0830	133	530	563	8.0	9.5	8.9	230
JUN 17...	0850	33	955	1020	7.9	14.0	8.0	460
JUL 15...	0900	15	1510	1720	7.8	16.0	7.8	840
AUG 19...	1300	19	1390	1660	7.6	24.5	6.8	780
SEP 13...	1200	73	923	1010	8.3	13.5	8.3	500

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
OCT 26...	135	71	78	1.5	2.7	170	580	12	.2
DEC 07...	181	120	140	2.2	3.6	220	980	46	.2
JAN 12...	198	120	140	2.2	3.1	260	1000	23	.3
FEB 16...	186	110	130	2.1	3.6	230	940	20	.2
MAR 16...	142	85	130	2.4	4.1	170	790	31	.3
APR 19...	44	17	21	.7	1.6	80	130	3.2	.2
MAY 20...	59	21	24	.7	1.9	110	170	3.8	.2
JUN 17...	110	46	49	1.1	2.5	172	390	6.3	.2
JUL 15...	180	95	100	1.7	3.5	167	790	18	.2
AUG 19...	160	92	91	1.6	4.0	167	750	13	.2
SEP 13...	120	48	48	1.0	3.2	160	400	6.8	.2

09370820 MANCOS RIVER BELOW JOHNSON CANYON NEAR CORTEZ, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT 26...	8.3	989	1.4	86.5	<.09	.020	27	35
DEC 07...	9.4	1620	2.2	103	.88	.130	13	64
JAN 12...	11	1660	2.3	50.2	.77	<.010	16	68
FEB 16...	10	1540	2.1	71.1	.73	.010	57	56
MAR 16...	7.4	1300	1.8	254	.88	.030	43	18
APR 19...	8.9	274	.37	130	<.10	.020	110	7
MAY 20...	9.0	355	.48	127	<.10	<.010	67	7
JUN 17...	9.1	717	.98	63.3	<.10	.050	12	13
JUL 15...	9.7	1300	1.8	51.9	<.10	.060	13	13
AUG 19...	9.1	1220	1.7	61.9	<.10	.010	21	8
SEP 13...	11	733	1.0	144	<.10	.030	17	16

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1720	1420	1890	1710	1980	1800	---	484	---	1290	1210	664
2	1330	1460	1960	1480	1860	1820	---	491	---	1320	1250	715
3	985	1480	2050	1540	1920	1780	---	467	---	1280	1240	765
4	779	1490	1850	1930	1950	1790	---	424	---	1300	1240	809
5	867	1520	1690	2100	1900	1880	---	427	---	1350	1400	852
6	878	1550	1690	2000	1950	1950	---	423	---	1330	1460	878
7	907	1550	1660	1870	2030	1960	1100	442	---	1350	1420	920
8	956	1600	1570	1960	1940	1870	1130	502	---	1360	1510	957
9	980	1650	1580	2150	1810	1840	1140	585	---	1380	1480	964
10	1030	1620	1580	2130	1800	1950	1180	635	---	1440	1340	981
11	1090	1610	1530	2030	1740	1950	1180	653	---	1470	1340	1020
12	1140	1600	1570	1990	1760	1680	999	655	---	1400	1310	948
13	1140	1590	1620	1960	1840	1160	608	779	---	1370	1350	906
14	1130	1590	1620	1990	1860	1240	506	544	---	1480	1370	819
15	1100	1590	1680	2040	1800	1310	464	483	---	1540	1440	905
16	1150	1620	1730	2060	1700	1360	452	516	---	1540	1350	824
17	1150	1650	1570	2000	1700	1320	454	536	1140	1560	1330	796
18	1080	1660	1650	1980	1580	1280	469	576	1220	1550	1330	818
19	1080	1730	1830	1970	1660	1230	470	544	1080	1520	1370	832
20	1100	1780	1630	1930	1710	1260	488	546	1170	1480	1380	830
21	1130	1830	1440	1970	1620	1350	539	529	1170	1440	1290	840
22	1170	1930	1490	2010	1710	1410	609	417	1200	1430	1420	862
23	1200	1820	1630	1970	1740	1420	665	414	1230	1440	1370	885
24	1220	1720	2020	2020	1830	1420	708	449	1220	1430	972	905
25	1260	1720	2240	1980	1840	1410	692	499	1220	1460	826	930
26	1290	1750	2240	1910	2010	1370	650	550	1220	1460	669	964
27	1340	1570	2120	1840	2040	---	619	452	1220	1450	511	979
28	1380	1820	1920	1830	1930	---	606	420	1180	1390	485	984
29	1390	1730	1950	[illegible]	---	---	560	---	1180	1350	502	981
30	1380	1790	1960	1870	---	---	495	---	1250	1290	551	941
31	1380	---	1790	1970	---	---	---	---	---	1200	606	---
MEAN	1150	1650	1770	1940	1830	1570		516		1410	1170	882

WTR YR 1982 MEAN 1330 MAX 2240 MIN 414

09370820 MANCOS RIVER BELOW JOHNSON CANYON NEAR CORTEZ, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	15.5	8.5	7.5	2.0	.5	.0	.0	.0	.0	.0	6.0	3.5
2	14.5	11.5	8.5	3.0	.5	.0	.5	.0	.5	.0	7.5	5.0
3	12.5	8.5	8.5	3.5	1.5	.0	.0	.0	.0	.0	7.0	4.0
4	15.5	10.0	9.0	3.5	1.5	.0	.0	.0	.0	.0	7.0	3.0
5	17.5	12.0	8.0	3.5	3.5	.0	.0	.0	.0	.0	7.0	1.5
6	16.5	9.0	9.5	5.0	3.0	.0	.0	.0	.0	.0	8.0	1.0
7	16.0	9.5	9.0	6.5	4.0	.0	.0	.0	.0	.0	9.0	1.5
8	16.0	12.0	9.0	4.5	4.0	.0	.0	.0	.0	.0	8.5	4.0
9	16.0	9.0	9.0	4.0	3.0	.0	.0	.0	.0	.0	12.0	4.0
10	16.0	8.0	8.5	4.0	3.5	.0	.0	.0	.0	.0	8.5	5.5
11	13.0	10.0	8.5	4.0	5.5	2.0	.0	.0	.0	.0	8.5	6.5
12	15.0	10.0	7.5	2.5	4.0	.5	.0	.0	.0	.0	9.5	7.0
13	12.0	9.0	7.5	2.5	4.0	.5	.0	.0	.0	.0	8.5	5.5
14	13.0	8.0	7.0	4.0	3.0	.0	.0	.0	.0	.0	9.0	7.0
15	13.0	9.5	7.0	2.5	3.0	.0	.0	.0	.0	.0	8.0	6.5
16	11.5	7.5	7.5	2.5	3.5	.0	.0	.0	.0	.0	8.0	5.5
17	11.5	6.5	6.5	1.5	1.0	.0	.0	.0	.0	.0	10.0	5.5
18	12.0	6.5	6.0	2.0	.5	.0	.0	.0	.0	.0	9.5	6.5
19	13.0	6.5	4.0	.0	1.0	.0	.0	.0	.5	.0	7.0	4.0
20	12.0	6.5	3.0	.0	1.5	.0	.0	.0	.5	.0	6.0	1.5
21	11.5	6.0	4.0	.0	.5	.0	.0	.0	1.0	.5	9.5	1.5
22	12.0	6.0	5.0	.5	.5	.0	.5	.0	1.5	.5	10.0	2.5
23	11.0	5.5	5.5	.5	.0	.0	.0	.0	1.0	.5	11.0	3.0
24	8.5	5.5	6.0	1.0	.0	.0	.5	.0	1.5	.5	11.5	3.5
25	10.0	5.0	4.5	1.5	.5	.0	.0	.0	4.5	1.0	12.0	4.0
26	9.0	4.5	3.0	.0	.5	.0	.0	.0	7.0	3.0	8.5	6.0
27	9.0	5.5	2.0	.0	.0	.0	.0	.0	7.5	3.5	10.5	5.5
28	9.5	6.0	3.5	.0	.5	.0	.0	.0	8.5	2.5	12.0	6.0
29	10.0	7.0	3.5	2.0	.5	.0	.0	.0	---	---	8.5	4.5
30	8.0	5.0	3.5	.0	.0	.0	.5	.0	---	---	---	---
31	7.5	2.5	---	---	.5	.0	.0	.0	---	---	---	---
MONTH	17.5	2.5	9.5	.0	5.5	.0	.5	.0	8.5	.0	12.0	1.0

09370820 MANCOS RIVER BELOW JOHNSON CANYON NEAR CORTEZ, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	15.5	10.0	---	---	24.0	16.5	27.0	19.0	---	---
2	---	---	14.5	10.0	---	---	23.5	14.0	26.0	20.0	---	---
3	---	---	13.5	9.5	---	---	24.0	13.5	24.5	18.5	---	---
4	---	---	12.0	8.0	---	---	22.5	14.0	26.0	17.0	---	---
5	11.5	---	10.5	8.0	---	---	20.5	14.0	24.0	16.0	---	---
6	12.0	7.0	---	---	---	---	21.5	13.0	26.5	16.5	---	---
7	12.0	5.5	---	---	---	---	20.5	14.0	25.0	18.0	---	---
8	11.5	4.0	---	---	---	---	24.0	15.0	24.0	17.5	---	---
9	12.5	4.5	---	---	---	---	25.0	16.0	26.0	17.5	---	---
10	13.5	4.5	---	---	---	---	25.5	15.0	25.5	17.5	---	---
11	13.0	5.5	---	---	---	---	26.0	15.5	26.5	19.0	---	---
12	16.0	10.0	---	---	---	---	26.0	17.0	27.5	20.0	---	---
13	12.5	7.0	---	---	---	---	26.5	17.0	25.5	20.5	---	---
14	12.0	5.5	---	---	---	---	27.0	16.0	27.0	19.0	---	---
15	11.5	5.5	---	---	---	---	25.0	15.5	26.5	19.5	---	---
16	12.0	6.5	---	---	---	---	23.5	15.0	28.0	19.5	---	---
17	10.5	4.0	---	---	---	---	25.0	17.0	29.0	21.0	---	---
18	12.5	6.0	---	---	23.5	14.5	25.0	17.5	29.5	21.5	---	---
19	11.0	6.0	---	---	23.5	15.5	25.0	17.5	27.0	20.5	---	---
20	8.0	3.5	---	---	19.5	13.5	25.5	15.5	28.0	19.0	---	---
21	8.0	4.0	---	---	22.5	13.5	27.0	17.5	28.5	16.5	---	---
22	6.5	4.5	---	---	21.5	14.0	27.5	18.5	24.0	20.0	---	---
23	9.5	6.0	---	---	22.5	14.0	28.0	19.5	22.5	19.5	---	---
24	12.0	6.5	---	---	23.5	13.5	27.0	19.0	21.5	16.5	---	---
25	13.0	5.5	---	---	23.0	14.0	29.0	19.0	21.5	16.0	---	---
26	13.5	7.0	---	---	23.5	14.0	27.0	19.5	---	---	---	---
27	12.5	7.5	---	---	24.5	14.5	28.5	19.5	---	---	---	---
28	15.5	8.0	---	---	25.0	15.0	27.0	20.5	---	---	---	---
29	14.5	9.5	---	---	24.0	15.5	27.0	20.0	---	---	---	---
30	13.5	9.0	---	---	24.5	17.0	25.0	19.0	---	---	14.5	11.0
31	---	---	---	---	---	---	26.5	18.0	---	---	---	---
MONTH							29.0	13.0				

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

09371000 MANCOS RIVER NEAR TOWAOC, CO

LOCATION.--Lat 37°01'39", long 108°44'27", Ute Indian Reservation, Montezuma County, Hydrologic Unit 14080107, on left bank 700 ft (210 m) upstream from bridge on U.S. Highway 666, 2.0 mi (3.2 km) north of Colorado-New Mexico State line, 6.0 mi (9.7 km) upstream from Aztec Creek, and 12 mi (19 km) south of Towaoc.

DRAINAGE AREA.--550 mi² (1,420 km²), approximately.

PERIOD OF RECORD.--Streamflow records, October 1920 to September 1943, February 1951 to current year. Monthly discharge only for some periods, published in WSP 1313. Water-quality data available, August 1969 to June 1972. Sediment data available, April to December 1961.

REVISED RECORDS.--WSP 1733: 1924 (monthly figures only).

GAGE.--Water-stage recorder. Datum of gage is 5,055.98 ft (1,541.063 m), National Geodetic Vertical Datum of 1929. See WSP 1713 or 1733 for history of changes prior to Mar. 11, 1954.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 10,000 acres (40.5 km²) above station. One diversion above station for irrigation of about 100 acres (405,000 m²) below. Flow regulated by Jackson Gulch Reservoir, capacity, 10,000 acre-ft (12.3 hm³) since March 1949. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--54 years, 51.3 ft³/s (1.453 m³/s), 37,170 acre-ft/yr (45.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,300 ft³/s (150 m³/s) Oct. 14 1941, gage height, 7.30 ft (2.225 m), present site and datum, from rating curve extended above 200 ft³/s (5.7 m³/s), on basis of slope-area measurement of peak flow; maximum gage height, 8.50 ft (2.591 m) Sept. 6, 1970; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,660 ft³/s (47.0 m³/s) at 1130 Aug. 25, gage height, 5.66 ft (1.725 m), only peak above base of 700 ft³/s (20 m³/s); minimum daily, 3.2 ft³/s (0.091 m³/s) July 15-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	24	18	11	12	53	44	205	175	17	28	76
2	59	22	14	10	12	51	50	252	167	21	24	64
3	272	22	20	9.5	12	78	48	340	159	19	26	51
4	91	22	22	11	15	59	44	387	145	16	27	46
5	42	21	20	9.3	16	41	48	452	139	14	16	43
6	35	21	18	10	17	31	54	378	127	13	12	40
7	33	21	16	12	17	27	44	280	115	13	9.3	35
8	29	21	16	11	19	28	38	232	100	13	23	34
9	28	28	16	9.3	28	29	36	173	98	12	19	37
10	25	24	16	11	26	28	33	145	96	11	15	40
11	22	21	15	12	22	33	31	133	94	7.6	13	74
12	22	19	15	13	19	119	50	132	87	7.6	12	172
13	32	19	15	13	18	186	138	145	82	7.0	11	131
14	35	19	14	13	17	82	165	195	78	4.8	26	230
15	32	19	11	12	17	66	173	197	65	3.2	19	98
16	40	18	12	12	19	78	173	181	56	3.2	14	87
17	48	17	13	12	18	70	157	159	40	3.2	11	84
18	39	17	9.6	13	20	58	153	133	26	4.1	8.6	76
19	36	15	9.6	13	24	50	144	132	31	5.5	7.3	73
20	35	14	11	12	26	50	134	128	25	6.1	7.3	73
21	34	12	12	13	30	43	118	134	26	7.6	25	68
22	31	13	12	13	40	36	102	189	26	7.9	68	63
23	31	14	10	12	46	33	95	211	27	7.9	25	58
24	30	14	8.5	12	40	32	88	197	26	7.3	200	53
25	30	15	8.2	12	47	32	90	165	23	6.4	709	50
26	29	15	9.0	12	48	36	96	142	22	6.7	309	46
27	27	14	9.3	12	42	51	104	181	22	11	271	44
28	26	14	10	12	40	56	112	205	20	19	175	42
29	26	18	9.0	13	---	53	139	203	20	21	130	43
30	26	22	10	12	---	60	171	215	17	22	108	39
31	26	---	11	12	---	50	---	213	---	30	89	---
TOTAL	1280.3	555	410.2	364.1	707	1699	2872	6434	2134	348.1	2437.5	2070
MEAN	41.3	18.5	13.2	11.7	25.3	54.8	95.7	208	71.1	11.2	78.6	69.0
MAX	272	28	22	13	48	186	173	452	175	30	709	230
MIN	9.3	12	8.2	9.3	12	27	31	128	17	3.2	7.3	34
AC-FT	2540	1100	814	722	1400	3370	5700	12760	4230	690	4830	4110

CAL YR 1981 TOTAL 6677.35 MEAN 18.3 MAX 741 MIN .00 AC-FT 13240
WTR YR 1982 TOTAL 21311.20 MEAN 58.4 MAX 709 MIN 3.2 AC-FT 42270

09371400 HARTMAN DRAW AT CORTEZ, CO

LOCATION.--Lat 37°19'26", long 108°36'52", in NW¼NE¼ sec.4, T.35 N., R.16 W., Montezuma County, Hydrologic Unit 14080202, on left bank 600 ft (180 m) upstream from mouth, 0.30 mi (0.5 km) upstream from McElmo Fall, and 1.2 mi (1.9 km) southwest of Cortez.

DRAINAGE AREA.--34.0 mi² (88.1 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft (1,798 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 172 ft³/s (4.87 m³/s) July 12, 1981, gage height, 4.36 ft (1.329 m); minimum daily, 0.28 ft³/s (0.008 m³/s) Apr. 30 to May 3, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 133 ft³/s (3.77 m³/s) Aug. 24, gage height, 4.34 ft (1.323 m); minimum daily, 3.3 ft³/s (0.093 m³/s) May 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	8.0	10	7.0	6.5	12	7.8	3.3	10	9.8	11	21
2	10	7.8	9.5	6.5	6.5	16	8.0	4.3	9.7	9.2	11	14
3	39	8.5	9.5	6.5	6.5	18	7.7	4.2	9.4	8.0	13	14
4	13	10	9.6	6.0	6.5	14	7.2	4.1	9.6	8.2	11	13
5	10	11	8.9	6.0	6.0	12	6.9	11	8.4	7.5	9.9	15
6	9.2	12	9.4	6.5	5.5	11	6.8	12	8.2	8.2	9.0	15
7	8.5	12	9.9	7.0	6.0	10	5.6	11	7.7	8.2	8.9	13
8	8.4	11	9.6	6.5	6.0	9.7	5.1	8.9	8.0	8.5	10	11
9	8.0	9.2	8.7	6.5	6.5	10	5.0	9.4	8.2	8.4	10	12
10	7.7	8.5	7.8	7.0	6.5	9.7	5.0	10	7.8	8.2	9.4	13
11	7.7	8.4	9.0	6.5	6.5	11	5.0	9.9	8.5	7.8	9.0	39
12	7.7	8.2	9.0	7.0	6.5	26	5.2	15	9.6	7.8	9.7	56
13	8.4	8.2	8.5	7.0	6.0	14	5.2	25	9.2	8.5	9.9	55
14	7.8	8.2	8.0	6.5	6.5	13	5.0	18	11	7.7	12	68
15	7.5	8.4	7.5	6.5	7.0	15	4.5	13	12	7.4	12	38
16	9.2	8.4	8.0	6.5	8.0	21	4.6	14	9.7	7.8	12	31
17	7.4	8.4	7.0	6.0	12	14	4.5	12	9.6	8.4	11	32
18	6.6	8.5	6.0	6.0	19	11	4.3	12	9.7	8.9	12	32
19	6.3	8.5	6.5	6.5	25	9.4	4.0	13	9.0	9.0	11	31
20	6.2	9.0	7.0	6.5	27	9.4	4.1	10	9.4	8.4	11	30
21	6.0	8.0	6.8	6.5	20	8.9	4.7	9.4	9.4	7.5	12	26
22	5.9	8.4	7.5	6.5	16	7.8	5.1	8.7	10	7.5	42	22
23	5.7	8.0	6.0	6.0	14	7.8	5.5	7.7	11	7.7	40	20
24	5.7	7.5	5.0	6.0	12	7.8	6.0	9.2	11	7.5	83	18
25	5.7	7.5	5.5	6.0	24	8.2	5.6	11	11	8.4	52	17
26	6.9	7.5	6.0	6.0	18	8.9	5.7	9.7	10	8.4	44	16
27	7.8	7.5	7.0	6.5	13	14	5.6	10	9.9	7.8	40	17
28	7.8	7.8	6.0	6.5	14	9.7	6.4	11	9.4	10	38	20
29	7.7	11	6.5	6.5	---	9.0	7.4	9.6	9.0	10	32	18
30	8.0	12	7.0	6.0	---	9.4	5.4	9.0	9.0	12	30	18
31	8.4	---	7.0	6.5	---	8.9	---	9.6	---	13	27	---
TOTAL	270.1	267.4	239.7	199.5	317.0	366.6	168.9	325.0	284.4	265.7	652.8	745
MEAN	8.71	8.91	7.73	6.44	11.3	11.8	5.63	10.5	9.48	8.57	21.1	24.8
MAX	39	12	10	7.0	27	26	8.0	25	12	13	83	68
MIN	5.7	7.5	5.0	6.0	5.5	7.8	4.0	3.3	7.7	7.4	8.9	11
AC-FT	536	530	475	396	629	727	335	645	564	527	1290	1480

CAL YR 1981 TOTAL 3287.82 MEAN 9.01 MAX 104 MIN .28 AC-FT 6520
WTR YR 1982 TOTAL 4102.10 MEAN 11.2 MAX 83 MIN 3.3 AC-FT 8140

09371400 HARTMAN DRAW AT CORTEZ, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1978 to Dec. 18, 1981 (Discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1978 to Dec. 18, 1981.
WATER TEMPERATURES: April 1978 to Dec. 18, 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 3,640 micromhos Jan. 8, 1980; minimum, 1,000 micromhos Apr. 22, 1981.
WATER TEMPERATURES: Maximum, 29.5°C Aug. 26, 1981; minimum, freezing point on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,720 micromhos Oct. 2; minimum, 1,750 micromhos Oct. 13.
WATER TEMPERATURES: Maximum, 17.5°C Oct. 5; minimum, 0.0°C on many days during November and December.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2610	2420	2580									
2	2580	2440	2550									
3	2060	2380	2520									
4	1960	2250	2520									
5	2130	2080	2500									
6	2160	2080	2460									
7	2130	2110	2400									
8	2100	2200	2330									
9	2090	2320	2450									
10	2080	2380	2500									
11	2060	2430	2500									
12	2060	2470	2540									
13	2410	2450	2550									
14	2440	2420	2530									
15	2410	2400	2500									
16	2390	2360	2520									
17	2430	2340	2550									
18	2420	2340	2590									
19	2410	2350	---									
20	2380	2330	---									
21	2370	2330	---									
22	2340	2320	---									
23	2350	2330	---									
24	2340	2340	---									
25	2330	2360	---									
26	2310	2380	---									
27	2340	2390	---									
28	2340	2380	---									
29	2330	2420	---									
30	2400	2590	---									
31	2410	---	---									

09371400 HARTMAN DRAW AT CORTEZ, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	15.5	9.0	8.5	2.5	.0	.0						
2	14.0	12.5	9.0	3.5	.0	.0						
3	12.5	9.5	8.5	3.5	1.0	.0						
4	16.0	11.0	8.5	3.5	3.5	.0						
5	17.0	12.0	8.0	3.5	6.0	2.5						
6	16.5	9.0	9.5	5.5	5.0	.5						
7	16.5	9.5	8.5	6.5	2.5	.5						
8	15.5	11.5	8.5	4.0	3.5	-0.5						
9	15.5	8.5	8.5	4.0	3.5	-0.5						
10	15.0	8.5	8.0	3.0	4.0	1.0						
11	13.0	10.5	8.0	3.5	6.0	2.5						
12	13.5	9.5	6.5	2.5	4.0	.0						
13	12.5	9.0	7.0	2.5	4.0	1.0						
14	13.0	8.0	6.5	3.5	2.5	-0.5						
15	13.5	9.0	6.5	2.0	3.5	.0						
16	12.5	7.5	7.0	2.0	3.5	.0						
17	12.5	6.5	6.0	1.5	.0	.0						
18	13.0	6.5	4.5	1.5	.0	.0						
19	13.0	6.5	3.0	-0.5	---	---						
20	12.5	6.0	3.5	-0.5	---	---						
21	12.0	5.5	4.5	-0.5	---	---						
22	11.5	5.5	5.5	1.5	---	---						
23	11.0	5.0	6.0	1.0	---	---						
24	8.0	5.5	6.5	1.5	---	---						
25	10.0	4.5	4.5	2.0	---	---						
26	10.0	4.0	3.0	.0	---	---						
27	9.5	6.0	3.5	.0	---	---						
28	9.5	7.0	4.0	.5	---	---						
29	10.5	7.5	4.0	3.0	---	---						
30	8.0	5.5	3.5	.0	---	---						
31	8.0	3.0	---	---	---	---						

09371420 McELMO CREEK ABOVE ALKALI CANYON, NEAR CORTEZ, CO

LOCATION.--Lat 37°19'38", long 108°38'55", in SE¼SE¼ sec.31, T.36 N., R.16 W., Montezuma County, Hydrologic Unit 14080202, on left bank 0.9 mi (1.4 km) upstream from Alkali Canyon and 4.0 mi (6.4 km) southwest of Cortez.

DRAINAGE AREA.--147 mi² (381 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,750 ft (1,753 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Diversions from tributaries above station for irrigation. Low flows are mainly return flow from irrigated areas. Water is imported above station from Dolores River basin for irrigation of about 33,000 acres (134 km²) above and below station in Montezuma Irrigation District and for municipal use by city of Cortez. A small amount of water is diverted at times to Mancos River basin. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--10 years, 25.0 ft³/s (0.708 m³/s) 18,110 acre-ft/yr (22.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 864 ft³/s (24.5 m³/s) July 15, 1981, gage height, 6.08 ft (1.853 m), from rating curve extended above 190 ft³/s (5.4 m³/s), on basis of step-backwater method; minimum daily, 1.5 ft³/s (0.042 m³/s) Sept. 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 735 ft³/s (20.8 m³/s) Aug. 24, gage height, 5.60 ft (1.707 m), from rating curve extended above 190 ft³/s (5.4 m³/s), on basis of step-backwater method; minimum daily, 6.5 ft³/s (0.18 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	12	13	12	11	16	17	10	22	26	22	41
2	21	13	16	12	11	24	48	11	22	25	20	29
3	153	22	17	11	10	28	58	11	22	25	23	28
4	28	19	19	10	10	22	58	10	24	28	20	26
5	17	19	16	11	10	16	57	23	21	30	20	32
6	14	20	21	12	9.5	12	56	26	22	32	18	38
7	13	21	28	12	9.5	12	55	18	22	32	18	49
8	12	17	20	11	10	12	54	16	22	30	22	45
9	12	14	15	11	10	16	55	15	22	26	19	39
10	11	13	14	11	11	15	54	18	22	22	17	44
11	11	12	16	12	13	13	48	17	22	20	16	78
12	11	12	16	12	15	47	38	25	24	20	17	106
13	12	12	15	12	17	30	16	50	26	19	18	91
14	12	12	15	11	19	19	19	41	26	16	23	152
15	11	12	15	11	20	24	17	34	26	16	28	64
16	15	12	15	11	24	37	14	31	24	16	28	57
17	13	12	13	11	33	28	13	30	24	18	28	48
18	11	13	11	11	58	21	12	30	24	16	27	44
19	11	12	12	11	76	18	12	28	24	17	23	43
20	11	13	14	12	94	17	21	25	24	16	21	39
21	11	12	14	11	48	15	11	20	23	14	33	34
22	11	13	14	11	30	14	12	20	23	14	97	28
23	11	13	12	10	24	14	17	22	24	14	74	25
24	11	13	10	10	21	13	24	24	22	14	254	24
25	11	13	10	10	38	13	28	26	24	16	76	23
26	12	13	11	10	26	14	27	22	24	20	78	23
27	13	14	12	11	20	25	19	20	22	17	65	22
28	13	13	10	11	17	20	13	22	22	21	59	30
29	13	18	11	11	---	20	14	20	20	22	48	25
30	13	18	12	11	---	20	14	20	20	59	45	44
31	13	---	13	11	---	19	---	20	---	28	45	---
TOTAL	537.5	432	450	344	695.0	614	901	705	689	689	1302	1371
MEAN	17.3	14.4	14.5	11.1	24.8	19.8	30.0	22.7	23.0	22.2	42.0	45.7
MAX	153	22	28	12	94	47	58	50	26	59	254	152
MIN	6.5	12	10	10	9.5	12	11	10	20	14	16	22
AC-FT	1070	857	893	682	1380	1220	1790	1400	1370	1370	2580	2720

CAL YR 1981 TOTAL 7237.9 MEAN 19.8 MAX 245 MIN 4.2 AC-FT 14360
WTR YR 1982 TOTAL 8729.5 MEAN 23.9 MAX 254 MIN 6.5 AC-FT 17310

09371492 MUD CREEK AT HIGHWAY 32 NEAR CORTEZ, CO

LOCATION.--Lat 37°18'46", long 108°39'38", in SW¼ sec.6, T.35 N., R.16 W., Montezuma County, Hydrologic Unit 14080202, on left bank 1 mi (1.6 km) upstream from mouth, and 4.5 mi (7.2 km) southwest of Cortez.

DRAINAGE AREA.--33.6 mi^2 (87.0 km^2).

PERIOD OF RECORD.--October 1981 to September 1982.

GAGE.--Water-stage recorder. Altitude of gage is 5,765 ft (1,757 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 598 ft^3/s (16.9 m^3/s) Aug. 24, 1982, gage height, 8.53 ft (2.600 m); minimum daily, from rating curve extended above 36 ft^3/s (1.02 m^3/s) on basis of slope-area measurement, 1.2 ft^3/s (0.034 m^3/s) Feb. 13, 14, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 598 ft^3/s (16.9 m^3/s) at 2200 Aug. 24, gage height, 8.53 ft (2.600 m from rating curve extended above 36 ft^3/s (1.02 m^3/s) on basis of slope-area measurement; minimum daily, 1.2 ft^3/s (0.034 m^3/s) Feb. 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	2.2	3.2	1.9	1.4	2.7	2.4	4.2	15	17	22	7.8
2	8.4	2.2	3.8	1.8	1.5	4.0	2.6	6.4	15	16	21	13
3	38	2.3	4.0	1.6	1.6	4.0	2.4	8.2	15	16	21	14
4	11	2.9	3.9	1.5	1.6	2.9	2.4	9.0	15	16	20	13
5	7.0	3.1	3.7	1.6	1.5	2.2	2.4	13	14	17	18	14
6	6.1	3.2	3.2	1.7	1.4	2.1	2.6	14	14	17	17	14
7	5.8	3.5	2.9	1.8	1.4	2.2	2.2	12	15	19	16	15
8	5.5	2.9	2.7	1.7	1.5	2.3	2.2	11	17	20	16	14
9	5.2	2.5	2.7	1.6	1.5	2.3	2.6	11	17	18	16	14
10	5.1	2.5	2.4	1.7	1.5	2.7	2.7	9.2	17	18	16	17
11	5.4	2.5	2.4	1.7	1.7	3.5	2.3	7.5	18	18	16	20
12	5.9	2.5	2.4	1.7	1.3	9.4	2.4	13	16	18	16	20
13	7.0	2.5	2.2	1.8	1.2	6.0	2.6	19	16	18	16	18
14	6.1	2.4	2.1	1.7	1.2	5.5	2.4	16	16	18	17	25
15	6.0	2.4	1.9	1.6	1.5	6.0	2.3	17	14	16	17	13
16	8.2	5.4	2.1	1.6	1.7	5.4	2.3	14	16	16	16	12
17	6.6	3.2	1.7	1.6	4.9	3.4	2.0	16	17	15	15	12
18	5.7	2.3	1.6	1.6	9.6	3.0	1.8	18	17	15	16	11
19	5.7	2.1	1.8	1.7	17	2.7	1.7	19	18	16	16	11
20	5.6	2.4	2.0	1.7	16	2.7	1.6	15	19	17	16	10
21	5.6	2.4	2.0	1.6	8.3	2.7	1.6	13	18	16	15	11
22	5.6	2.3	2.1	1.6	4.7	2.7	2.9	12	18	18	16	9.4
23	5.1	2.2	1.7	1.3	3.4	2.6	15	12	16	18	19	9.2
24	5.1	2.2	1.4	1.4	3.3	2.7	5.4	13	18	21	66	9.2
25	5.1	2.4	1.4	1.4	4.1	2.6	5.4	15	19	20	54	9.4
26	4.4	2.3	1.7	1.4	3.2	2.7	5.0	15	18	12	15	9.2
27	3.2	2.4	1.8	1.5	2.9	3.8	4.2	15	18	13	11	9.7
28	2.9	2.9	1.5	1.6	2.9	3.2	3.5	15	17	18	9.7	11
29	2.6	3.7	1.7	1.8	---	3.0	3.0	14	16	20	9.0	9.4
30	2.4	3.8	1.8	1.5	---	2.6	2.9	14	16	22	7.8	10
31	2.2	---	1.9	1.3	---	2.3	---	15	---	22	7.1	---
TOTAL	202.2	81.6	71.7	50.0	103.8	105.9	94.8	405.5	495	541	573.6	385.3
MEAN	6.52	2.72	2.31	1.61	3.71	3.42	3.16	13.1	16.5	17.5	18.5	12.8
MAX	38	5.4	4.0	1.9	17	9.4	15	19	19	22	66	25
MIN	2.2	2.1	1.4	1.3	1.2	2.1	1.6	4.2	14	12	7.1	7.8
AC-FT	401	162	142	99	206	210	188	804	982	1070	1140	764

WTR YR 1982 TOTAL 3110.4 MEAN 8.52 MAX 66 MIN 1.2 AC-FT 6170

09371500 McELMO CREEK NEAR CORTEZ, CO

LOCATION.--Lat 37°19'23", long 108°40'22", in NE¼ sec.1, T.35N., R.71 W., Montezuma County, Hydrologic Unit 14080202, on left bank 150 ft (45.7 m) downstream from mouth of Mud Creek, and 4 mi (6.4 km) southwest of Cortez.

DRAINAGE AREA.--233 mi^2 (603 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1926 to September 1929, April 1940 to September 1945, October 1950 to September 1954 (monthly discharge only for some periods, published in WSP 1313), January to September 1981.

REVISED RECORDS.--WSP 1313: 1927, 1927 (M).

GAGE.--Water-stage recorder. Altitude of gage is 5,700 ft (1,737 m) by barometer. Prior to Sept. 30, 1929, at site 3 mi (4.8 km) downstream at different datum. Mar. 29, 1940 to Nov. 2, 1941, at site 150 ft (45.7 m) upstream at datum 4.20 ft (1.280 m) higher. Nov. 3, 1941 to Sept. 30, 1945, at present site at datum 4.00 ft (1.219 m) higher. Oct. 1, 1950 to Sept. 30, 1954, at present site at datum 2.50 ft (0.762 m) higher. Jan. 1, 1982, to present, at former site at same datum.

REMARKS.--Diversions for irrigation of about 200 acres (0.81 km^2) above station. Flow is mainly return flows from irrigated lands for Montezuma Irrigation District (water imported from Dolores River basin).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,560 ft^3/s (157 m^3/s), Sept. 9, 1927, gage height, 6.45 ft (1.966 m), from rating curve extended above 240 ft^3/s (6.80 m^3/s) on basis of slope-area measurement at gage height 5.72 ft (1.743 m); minimum not determined.

EXTREMES FOR CURRENT YEAR.--For period Jan. to Sept., maximum discharge, 732 ft^3/s (20.7 m^3/s) at 0800 Aug. 24, gage height, 6.54 ft (1.993 m); minimum daily, 16 ft^3/s (0.45 m^3/s) Jan. 4, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				24	19	28	37	20	45	63	63	83
2				22	18	39	66	20	45	57	62	78
3				18	18	42	77	31	45	56	66	75
4				16	18	34	78	31	46	59	64	72
5				24	20	29	77	40	44	58	60	80
6				22	20	26	77	52	44	66	50	86
7				20	22	24	78	44	46	66	55	95
8				16	30	24	76	38	47	70	62	89
9				18	32	28	79	33	47	65	62	82
10				22	28	27	70	32	47	63	58	101
11				22	24	28	63	35	55	58	56	192
12				24	20	75	53	54	57	55	55	178
13				22	20	47	28	91	58	51	52	186
14				22	20	32	27	69	63	47	65	274
15				20	22	42	27	60	63	43	66	125
16				20	26	55	23	55	61	36	67	83
17				20	30	45	22	51	61	40	68	70
18				22	38	34	22	55	61	41	76	67
19				22	64	31	21	58	62	42	71	73
20				24	76	32	29	65	70	44	69	76
21				24	55	29	19	60	73	40	81	75
22				24	44	27	20	50	74	41	128	75
23				21	36	25	36	52	73	44	120	72
24				20	31	31	40	53	65	43	310	68
25				18	50	30	44	55	66	53	172	69
26				20	37	32	43	49	66	47	133	68
27				22	32	46	39	47	66	46	126	83
28				24	30	38	26	52	66	58	116	85
29				23	---	38	25	47	56	59	101	90
30				20	---	36	23	45	52	89	97	97
31				20	---	33	---	44	---	76	87	---
TOTAL				656	880	1087	1345	1488	1724	1676	2718	2947
MEAN				21.2	31.4	35.1	44.8	48.0	57.5	54.1	87.7	98.2
MAX				24	76	75	79	91	74	89	310	274
MIN				16	18	24	19	20	44	36	50	67
AC-FT				1300	1750	2160	2670	2950	3420	3320	5390	5850

09371500 McELMO CREEK NEAR CORTEZ, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 37°19'23", long 108°40'22", (Mud Creek, CO, Quad., scale, 1:24,000), in NE¼ Sec. 1, T.35N., R.17W., Montezuma County, Hydrologic Unit 14080202, on left bank 150 ft (45.6 m) downstream from mouth of Mud Creek and 4 mi (6.4 km) southwest of Cortez.

PERIOD OF RECORD.--Jan. 1, 1982, to Sept. 30, 1982.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Feb. 6, 1982, to Sept. 30, 1982.
WATER TEMPERATURES: Feb. 6, 1982 to Sept. 30, 1982.

INSTRUMENTATION.--Water-quality monitor since January 1982.

REMARKS.--Daily maximum and minimum specific conductance and water temperature data available in District office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum 3,660 micromhos Feb. 7, 1982; minimum, 847 micromhos Aug. 24, 1982.
WATER TEMPERATURES: Maximum 25°C July 23, 25, 29; minimum 0.0°C many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum 3,660 micromhos Feb. 7, 1982; minimum, 847 micromhos Aug. 24, 1982.
WATER TEMPERATURES: Maximum 25°C July 23, 25, 29; minimum 0.0°C, many days during winter months.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOB[illegible]81 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---	3000	2750	3090	2050	1600	2100	1510
2					---	2990	2260	2940	2040	1580	1990	1510
3					---	3240	1720	2280	2050	1510	1910	1510
4					---	3250	1690	1960	2080	1450	1780	1530
5					3250	3290	1640	2420	2120	1450	1750	1570
6					3490	3310	1660	2110	2100	1370	1760	1540
7					3510	3300	1620	1920	2000	1420	1760	1410
8					3400	3310	1590	2100	2080	1400	1710	1380
9					3260	3230	1560	2280	2030	1440	1680	1440
10					3280	2880	1640	2280	1960	1490	1730	1580
11					3240	2780	1730	2050	1950	1560	1760	1630
12					3310	2970	1910	1790	1900	1630	1780	1680
13					3310	2820	2830	1970	1810	1700	1810	1470
14					3330	3030	3350	1920	1810	1760	1800	1390
15					3230	3090	2930	1880	1800	1840	1770	1580
16					3200	3200	3270	1920	1800	1910	1720	1650
17					3170	3190	3340	1900	1800	1950	1700	1670
18					2850	3270	3420	2010	1800	1980	1720	1690
19					2610	3370	3470	1920	1730	2040	1720	1690
20					2230	3340	2880	1790	1670	2040	1640	1670
21					2370	3430	2800	1810	1600	2060	1620	1650
22					2610	3470	3200	2030	1580	2080	1810	1640
23					2820	3450	2840	1990	1530	2050	1570	1650
24					3040	2930	2380	1960	1560	2160	1860	1640
25					2860	2790	1800	2030	1550	2200	1790	1640
26					3030	2730	1790	2040	1500	2250	1790	1640
27					3090	2880	1930	2060	1490	2230	1670	1650
28					3000	2930	2570	2070	1480	2030	1660	1660
29					---	2800	2910	2050	1510	1460	1580	1680
30					---	2770	3050	2060	1590	1630	1530	1790
31					---	3110	---	2060	---	2140	1530	---
MEAN					3060	3100	2420	2090	1800	1790	1740	1590

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

09371500 McELMO CREEK NEAR CORTEZ, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1									---	---	6.0	2.5
2									---	---	8.0	5.0
3									---	---	6.5	4.5
4									---	---	6.5	2.5
5									---	---	6.5	1.0
6									.0	.0	7.0	.0
7									.0	.0	7.5	.5
8									.0	.0	6.5	3.0
9									.0	.0	9.0	2.0
10									.0	.0	7.0	3.0
11									.0	.0	7.0	5.5
12									.0	.0	8.5	6.0
13									.0	.0	7.5	5.0
14									.0	.0	8.5	6.0
15									.0	.0	7.0	4.5
16									.0	.0	7.0	3.5
17									.0	.0	9.0	4.0
18									.5	.0	9.5	5.5
19									.5	.0	5.0	3.0
20									1.0	.0	8.0	.5
21									2.5	.0	7.0	1.0
22									5.5	.5	10.0	1.5
23									5.0	2.0	11.0	2.5
24									5.5	2.5	11.0	3.0
25									5.5	3.5	11.5	3.5
26									6.0	2.5	8.5	6.0
27									7.5	2.0	10.0	5.5
28									8.5	2.0	12.5	5.5
29									---	---	9.0	5.5
30									---	---	8.0	3.5
31									---	---	12.5	3.0
MONTH									8.5	.0	12.5	.0

09371500 McELMO CREEK NEAR CORTEZ, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.5	5.0	21.0	11.5	19.0	11.5	22.5	16.5	24.0	18.0	21.5	16.5
2	9.0	3.5	20.5	12.5	19.0	11.0	21.0	15.0	22.0	19.0	21.0	15.5
3	10.0	4.0	19.5	12.5	19.0	12.5	21.5	13.5	23.0	18.0	22.5	16.0
4	12.0	6.0	17.5	11.0	18.0	10.0	20.5	14.0	22.5	17.5	21.0	17.0
5	11.0	5.5	16.0	11.0	17.5	11.0	18.5	14.0	22.5	15.5	22.0	17.0
6	10.0	7.0	15.5	7.5	17.5	9.0	19.0	12.5	23.5	16.0	21.0	16.0
7	11.0	5.5	16.5	7.5	18.5	9.5	18.5	14.0	22.0	17.5	20.0	16.0
8	9.5	4.0	18.0	10.5	19.0	10.5	21.0	14.5	23.5	17.0	19.5	16.0
9	11.0	5.0	17.0	10.0	20.5	11.5	21.5	15.5	24.0	17.0	19.5	15.5
10	11.0	4.5	16.0	8.5	19.5	12.5	22.0	14.0	22.0	17.0	18.0	15.0
11	12.5	6.0	15.5	9.5	21.0	13.0	22.0	14.5	24.0	18.0	17.5	15.5
12	16.0	10.0	11.5	8.5	21.0	14.0	22.5	15.0	23.5	18.5	16.5	14.5
13	17.0	8.0	13.0	7.5	18.5	13.5	23.0	16.0	23.0	19.0	15.0	12.0
14	17.0	7.5	15.5	7.5	19.5	12.5	23.0	15.0	24.0	17.5	15.0	10.5
15	16.5	7.5	16.0	9.5	19.5	13.0	21.5	15.0	24.0	18.5	17.5	12.5
16	17.5	9.0	16.5	10.0	20.5	13.0	20.0	15.0	24.5	18.5	18.0	13.5
17	16.0	6.5	18.0	10.0	18.5	14.0	22.0	16.0	24.0	19.5	18.0	15.0
18	18.0	8.5	18.5	11.5	21.0	13.5	19.5	16.0	24.5	19.5	18.0	15.5
19	16.5	7.5	17.0	12.0	19.0	14.5	21.0	15.5	24.0	18.0	18.0	14.0
20	10.5	5.5	17.5	10.5	21.5	12.5	23.0	15.0	23.0	18.5	18.5	15.0
21	11.5	4.5	18.5	8.5	19.5	14.0	23.0	17.0	22.5	19.0	19.0	14.0
22	8.0	5.5	17.0	11.5	18.5	14.0	24.5	17.5	21.0	18.5	19.5	14.0
23	10.5	6.0	19.0	11.5	21.0	13.5	25.0	18.0	20.5	18.0	19.5	14.0
24	15.5	7.0	15.5	11.0	22.0	14.0	23.0	18.5	21.0	16.5	17.5	13.5
25	12.5	7.5	19.0	10.5	21.0	14.5	25.0	18.0	19.5	18.0	19.0	14.5
26	13.5	8.0	20.0	11.5	22.5	14.0	24.5	18.5	21.0	17.0	19.0	15.5
27	16.0	8.0	18.0	13.5	23.0	14.5	24.0	19.0	21.5	17.0	16.5	13.0
28	19.0	8.0	19.0	11.0	23.5	15.5	23.0	19.0	20.5	16.5	12.5	11.0
29	19.5	10.0	19.5	12.0	21.5	16.0	25.0	18.5	22.0	16.5	14.0	9.5
30	17.0	10.5	19.0	12.0	22.5	17.0	23.0	17.0	22.0	18.0	14.5	11.5
31	---	---	20.0	11.5	---	---	24.5	17.5	22.5	17.5	---	---
MONTH	19.5	3.5	21.0	7.5	23.5	9.0	25.0	12.5	24.5	15.5	22.5	9.5

NOTE! NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

09371700 McELMO CREEK BELOW CORTEZ, CO

LOCATION.--Lat 37°20'26", long 108°48'19", in NW¼NW¼ sec.35, T.36 N., R.18 W., Montezuma County, Hydrologic Unit 14080202, on left bank 100 ft (30 m) downstream from bridge on State Highway 32, 150 ft (46 m) downstream from Sand Canyon, and 11.7 mi (18.8 km) west of Cortez.

DRAINAGE AREA.--283 mi² (733 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,430 ft (1,655 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station by Black Dike ditch for irrigation of 310 acres (1.25 km²) above station and Rock Creek ditch for irrigation of 650 acres (2.63 km²) below station. Low flows are mainly return flows from irrigated areas. Water is imported above station from Dolores River basin for irrigation of about 33,000 acres (134 km²) above and below station in Montezuma Irrigation District and for municipal use by city of Cortez. A small amount of water is diverted at times to Mancos River basin. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--10 years, 38.7 ft³/s (1.096 m³/s), 28,040 acre-ft/yr (34.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,130 ft³/s (60.3 m³/s) July 19, 1977, gage height, 8.96 ft (2.731 m), from floodmarks, from rating curve extended above 400 ft³/s (11 m³/s), on basis of step-backwater method; minimum daily, 0.04 ft³/s (0.001 m³/s) Sept. 9, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,080 ft³/s (30.6 m³/s) at 2230 Aug. 24, gage height, 6.43 ft (1.960 m); minimum daily, 1.3 ft³/s (0.037 m³/s) Apr. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	23	23	24	23	32	21	6.0	22	30	62	64
2	33	33	23	22	16	42	42	5.8	19	29	51	58
3	274	50	30	18	19	51	66	7.5	19	26	45	57
4	118	51	44	15	21	43	80	11	18	28	39	54
5	48	52	48	24	16	33	70	13	17	29	35	65
6	26	58	51	22	15	27	69	26	16	33	28	70
7	13	55	55	20	17	25	70	21	18	34	30	81
8	12	33	47	16	30	23	69	15	16	38	36	88
9	11	26	30	18	30	25	78	10	19	34	37	65
10	9.8	25	30	22	28	29	62	8.3	17	32	34	116
11	9.5	25	28	22	24	31	43	8.3	17	30	33	179
12	18	23	28	24	20	71	35	18	25	28	32	268
13	26	23	28	22	18	58	12	60	26	64	30	243
14	26	23	26	22	18	37	6.3	48	28	37	36	384
15	25	23	26	20	22	37	9.0	33	28	28	40	178
16	29	23	28	20	24	66	6.1	66	26	24	39	116
17	28	25	22	22	25	54	4.8	45	26	19	39	96
18	24	24	17	22	37	39	3.4	26	27	16	45	84
19	23	23	24	24	47	33	1.3	28	29	16	44	88
20	23	22	24	24	92	33	5.2	35	39	18	48	96
21	22	23	24	24	87	31	6.4	35	43	16	57	84
22	25	23	20	24	71	28	6.0	25	42	15	129	77
23	24	23	18	22	58	26	11	27	45	18	112	66
24	23	23	16	20	44	26	12	28	37	17	423	60
25	23	23	18	18	62	31	18	32	35	33	240	68
26	23	23	20	20	52	33	18	28	35	25	173	66
27	23	23	22	20	42	44	14	24	35	23	144	80
28	23	25	24	20	37	28	9.0	28	34	34	131	104
29	23	30	24	20	---	25	7.3	25	30	51	83	100
30	23	37	24	23	---	28	7.1	23	21	81	75	112
31	23	---	24	23	---	20	---	21	---	81	68	---
TOTAL	1043.3	893	866	657	995	1109	861.9	786.9	809	987	2418	3267
MEAN	33.7	29.8	27.9	21.2	35.5	35.8	28.7	25.4	27.0	31.8	78.0	109
MAX	274	58	55	24	92	71	80	66	45	81	423	384
MIN	9.5	22	16	15	15	20	1.3	5.8	16	15	28	54
AC-FT	2070	1770	1720	1300	1970	2200	1710	1560	1600	1960	4800	6480

CAL YR 1981 TOTAL 11538.2 MEAN 31.6 MAX 416 MIN 2.2 AC-FT 22890
WTR YR 1982 TOTAL 14693.1 MEAN 40.3 MAX 423 MIN 1.3 AC-FT 29140

09372000 McELMO CREEK NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 37°19'27", long 109°00'54", in NE¼ sec.2, T.35 N., R.20 W., Montezuma County, Hydrologic Unit 14080202, on right bank 1.5 mi (2.4 km) upstream from Colorado-Utah State line, 2.0 mi (3.2 km) upstream from Yellowjacket Creek, and 2.0 mi (3.2 km) west of former town of McElmo.

DRAINAGE AREA.--346 mi² (896 km²).

PERIOD OF RECORD.--Streamflow records, March 1951 to current year. Water-quality data available, November 1977 to September 1981.

REVISED RECORDS.--WSP 1925: 1951-52(M), 1957(M). WRD Colo. 1972: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,890 ft (1,490 m), from topographic map.

REMARKS.--Records good, except those for winter period, which are poor. Diversions for irrigation of about 1,780 acres (7.20 km²) above station. One diversion above station for irrigation of about 60 acres (243,000 m²) below. Part of flow is return water from irrigated lands of Montezuma Irrigation District (water imported from Dolores River basin). Several observations of specific-conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--31 years, 45.6 ft³/s (1.291 m³/s), 33,040 acre-ft/yr (40.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,040 ft³/s (86.1 m³/s) Aug. 7, 1967, gage height, 7.58 ft (2.310 m), from floodmark in gage well, from rating curve extended above 2,100 ft³/s (59 m³/s); maximum gage height, 8.13 ft (2.478 m) Sept. 6, 1970; minimum daily discharge, 0.08 ft³/s (0.002 m³/s) Sept. 9, 10, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,220 ft³/s (34.6 m³/s) at about 0230 Aug. 25, gage height 6.40 ft (1.951 m), only peak above base of 620 ft³/s (18 m³/s); minimum daily, 3.0 ft³/s (0.085 m³/s) May 1, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	25	28	26	27	33	35	3.0	24	33	71	68
2	42	28	22	24	20	36	56	3.4	29	42	67	60
3	289	50	26	24	20	58	86	3.0	35	29	62	62
4	167	58	42	16	24	47	91	7.5	35	33	59	58
5	68	59	52	25	19	36	89	13	30	30	54	60
6	46	62	50	24	13	29	87	25	27	34	37	73
7	39	65	58	21	15	27	91	26	33	42	30	76
8	32	47	54	17	33	24	91	16	29	43	47	81
9	32	34	30	20	32	24	91	11	30	43	43	65
10	32	30	32	24	30	30	89	10	34	36	54	67
11	29	28	28	24	25	29	78	6.5	33	36	40	168
12	27	26	29	26	21	60	67	19	39	39	42	245
13	29	25	29	24	19	84	39	79	50	40	39	250
14	29	24	27	24	20	43	20	75	56	34	43	374
15	28	24	26	22	23	40	23	53	56	22	49	182
16	32	24	28	22	24	76	15	53	50	19	44	121
17	33	27	23	24	25	62	14	40	44	12	46	109
18	29	24	20	24	36	44	9.7	39	46	12	46	81
19	27	22	26	25	53	39	9.7	30	42	18	48	78
20	26	24	26	26	100	37	6.0	44	50	22	50	86
21	25	26	26	26	95	35	11	53	54	19	50	86
22	26	27	25	26	75	30	7.0	37	62	9.7	78	84
23	28	26	20	23	59	28	9.0	35	56	15	90	79
24	28	26	18	21	43	27	18	42	47	18	140	73
25	28	25	20	20	54	29	23	40	46	40	500	71
26	28	24	22	22	58	35	28	40	49	32	300	68
27	28	23	24	22	40	49	22	25	49	34	220	89
28	28	26	25	22	34	50	20	26	49	50	170	107
29	27	29	24	22	---	42	11	32	40	70	130	100
30	21	40	26	24	---	46	8.5	28	24	70	91	132
31	22	---	26	25	---	37	---	28	---	104	79	---
TOTAL	1350	978	912	715	1037	1266	1244.9	942.4	1248	1080.7	2819	3253
MEAN	43.5	32.6	29.4	23.1	37.0	40.8	41.5	30.4	41.6	34.9	90.9	108
MAX	289	65	58	26	100	84	91	79	62	104	500	374
MIN	21	22	18	16	13	24	6.0	3.0	24	9.7	30	58
AC-FT	2680	1940	1810	1420	2060	2510	2470	1870	2480	2140	5590	6450

CAL YR 1981 TOTAL 13303.6 MEAN 36.4 MAX 413 MIN 1.7 AC-FT 26390
WTR YR 1982 TOTAL 16846.0 MEAN 46.2 MAX 500 MIN 3.0 AC-FT 33410

TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO

There are 24 tunnels or ditches, all of which are equipped with water-stage recorders and Parshall flumes or sharp-crested weirs. Records furnished by Colorado Division of Water Resources. The locations of selected diversions are given in the following list.

09010000 Grand River ditch diverts water from tributaries of Colorado River to La Poudre Pass Creek (tributary to Cache la Poudre River) in NW¼ sec.21, T.6 N., R.75 W., in Platte River basin. Two collection ditches beginning at headgates located in sec.28, T.5 N., R.76 W., and sec.29, T.6 N., R.75 W., intercept all tributaries upstream on each side of the Colorado River and converge at La Poudre Pass.
REVISIONS (WATER YEARS).--WSP 1313: 1912-27.

09013000 Alva B. Adams tunnel diverts water from Grand Lake and Shadow Mountain Lake in NW¼ sec.9, T.3 N., R.75 W., in Colorado River basin, to Lake Estes (Big Thompson River) in sec.30, T.5 N., R.72 W., in Platte River basin. For daily discharge, see elsewhere in this report.

09021500 Berthoud Pass ditch diverts water from tributaries of Fraser River between headgate in sec.33, T.2 S., R.75 W., and Berthoud Pass, in Colorado River basin, to Hoop Creek (tributary to West Fork Clear Creek) in sec.10, T.3 S., R.75 W., in Platte River basin.

09022500 Moffat water tunnel diverts water from tributaries of Williams Fork (via August P. Gumlick and Vasquez tunnels, beginning in 1959) between headgates (in secs.20 and 29, T.3 S., R.76 W.) and west portal of August P. Gumlick tunnel (in sec.28, T.3 S., R.76 W.) and from the main stem and tributaries of Fraser River between headgates (in sec.8, T.2 S., R.76 W., and sec.24, T.1 S., R.75 W.) and west portal of Moffat tunnel (in sec.11, T.2 S., R.75 W.), in Colorado River basin, to South Boulder Creek, in sec.2, T.2 S., R.74 W., in Platte River basin. (See sta. 09036000 for diversions by August P. Gumlick tunnel.)

09042000 Hoosier Pass tunnel diverts water from tributaries of Blue River in Colorado River basin to Montgomery Reservoir (Middle Fork South Platte River) in sec.14, T.8 S., R.78 W., in Platte River basin; this water is again diverted to South Catamount Creek (tributary to Catamount Creek) in SE¼ sec.14, T.13 S., R.69 W., in the Arkansas River basin. Collection conduits extending from the right bank of Crystal Creek (tributary to Spruce Creek) in sec.14, T.7 S., R.78 W., right bank of Spruce Creek in sec.23, T.7 S., R.78 W., right bank of McCullough Gulch in sec.26, T.7 S., R.78 W., right bank of Monte Cristo Creek in SW¼NE¼ sec.2, T.8 S., R.78 W., left bank of Bemrose Creek in SW¼SW¼ sec.6, T.8 S., R.77 W., and intercepting intermediate tributaries, transport diversions to north portal of the tunnel.

09050590 Harold D. Roberts tunnel diverts water from Dillon Reservoir (Blue River) in sec.18, T.5 S., R.77 W., in Blue River basin, to North Fork South Platte River (tributary to South Platte River) in SW¼SW¼ sec.4, T.7 S., R.74 W., in Platte River basin. Figures include a small amount of ground-water inflow between Dillon Reservoir and east portal of tunnel.

09061500 Columbine ditch diverts water from tributaries of Eagle River in sec.5, T.8 S., R.79 W., in Colorado River basin to Chalk Creek (tributary to East Fork Arkansas River) in NW¼ sec.9, T.8 S., R.79 W., in Arkansas River basin.

09062000 Ewing ditch diverts water from Piney Creek in sec.11, T.8 S., R.80 W., in Eagle River basin, to Thayer Gulch (tributary to Tennessee Creek) in sec.11, T.8 S., R.80 W., in Arkansas River basin.

09062500 Wurtz ditch diverts water from tributaries of Eagle River between headgate in sec.32, T.7 S., R.80 W., and Tennessee Pass, in Colorado River basin, to West Tennessee Creek (tributary to Tennessee Creek) in sec.17, T.8 S., R.80 W., in Arkansas River basin.

09063700 Homestake tunnel diverts water from Homestake Lake (Middle Fork Homestake Creek), in sec.17, T.8 S., R.81 W., in Eagle River basin, to Lake Fork in sec.9, T.9 S., R.81 W., in Arkansas River basin. Water is imported to Homestake Lake from tributaries of Homestake Creek by collection conduits that extend from right bank of French Creek in sec.28, T.7 S., R.81 W., and left bank of East Fork Homestake Creek in sec.9, T.8 S., R.81 W., and intercept intermediate tributaries.

09073000 Twin Lakes tunnel diverts water from tributaries of Roaring Fork River between headgates (in sec.21, T.11 S., R.83 W., and sec.2, T.11 S., R.83 W.), and west portal of Twin Lakes tunnel (in sec.24, T.11 S., R.83 W), in Colorado River basin, to North Fork Lake Creek in sec.22, T.11 S., R.82 W., in Arkansas River basin.

TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO--Continued

09077160 Charles H. Boustead Tunnel diverts water from the main stem and tributaries of Fryingpan River (tributary to Roaring Fork River), in Colorado River basin, to Lake Fork in sec.10, T.9 S., R.81 W., in Arkansas River basin. Water is transported to west portal of tunnel (at lat 39°14'44", long 106°31'47"), by a series of collection conduits extending between headgates on right bank of Sawyer Creek at lat 39°15'58", long 106°38'19", and right bank of Fryingpan River at lat 39°14'40", long 106°31'49", and intercepting intermediate tributaries.

09077500 Busk-Ivanhoe tunnel diverts water from Ivanhoe Lake (Ivanhoe Creek), tributary to Fryingpan River in sec.13, T.9 S., R.82 W., in Roaring Fork River basin, to Busk Creek (tributary to Lake Fork) in sec.20, T.9 S., R.81 W., in Arkansas River basin.

09115000 Larkspur ditch diverts water from tributaries of Tomichi Creek between headgates (in sec.11, T.48 N., R.6 E., and sec.1, T.47 N., R.6 E.), and Marshall Pass, in Gunnison River basin, to Poncha Creek (tributary to South Arkansas River) in SE¼ sec.24, T.48 N., R.6 E., in Arkansas River basin.

09118200 Tarbell ditch diverts water from Lake Fork Cochetopa Creek (tributary to Cochetopa Creek), in NW¼ sec.18, T.43 N., R.2 E., in Gunnison River basin, to Lake Fork Saguache Creek (tributary to Middle Fork Saguache Creek) in NE¼ sec.18, T.43 N., R.2 E., in Rio Grande Basin. All records available prior to October 1960 published in WSP 1733.
REVISIONS (WATER YEARS).--WSP 1733: 1949-51.

09121000 Tabor ditch diverts water from tributaries of Cebolla Creek in secs.29 and 36, T.43 N., R.3 W., in Gunnison River basin, to Big Spring Creek (tributary to North Clear Creek) in sec.35, T.43 N., R.3 W., in Rio Grande basin.

09341000 Treasure Pass diversion ditch diverts water from tributaries of Wolf Creek between headgates (in sec.31, T.38 N., R.2 E., and sec.6, T.37 N., R.3 E.), and Wolf Creek Pass, in San Juan River basin, to tributary of South Fork Rio Grande in sec.31, T.38 N., R.2 E., in Rio Grande basin.

09347000 Don La Font ditches 1 and 2 divert water from tributaries of Piedra River between headgates in NW¼ sec.4, T.38 N., R.1 W., and SW¼ sec.33, T.39 N., R.1 W.), and Piedra Pass, in San Juan River basin, to South River in sec.4, T.38 N., R.1 W., in Rio Grande basin.

09351000 Pine River-Weminuche Pass ditch diverts water from North Fork Los Pinos River (tributary to Los Pinos River) in sec.4, T.39 N., R.4 W., in San Juan River basin, to Weminuche Creek in sec.33, T.40 N., R.4 W., in Rio Grande basin.

09351500 Weminuche Pass ditch diverts water from left bank of Rincon la Vaca Creek (tributary to Los Pinos River) in sec.5, T.39 N., R.4 W., in San Juan River basin, to Weminuche Creek in sec.33, T.40 N., R.4 W., in Rio Grande basin.

TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

	Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year
	TO PLATTE RIVER BASIN													
09010000	Grand River ditch...	0	0	0	0	0	0	0	716	6,970	9,520	3,600	1,050	21,860
09013000	Alva B. Adams tunnel	24,440	21,980	29,860	29,920	26,580	29,890	19,190	28,730	3,580	8,830	14,160	11,370	248,500
09021500	Berthoud Pass ditch.	0	0	0	0	0	0	0	0	0	227	168	31	426
09022500	Moffat water tunnel.	1,430	1,180	891	664	500	547	699	5,790	37,660	22,520	9,880	6,080	87,840
09050590	Harold D. Roberts tunnel...........	12,650	8,450	6,460	6,430	5,880	3,440	0	0	2,070	18,770	3,860	0	68,010
	TO ARKANSAS RIVER BASIN													
09042000	Hoosier Pass tunnel.	0	0	0	0	0	0	0	586	4,160	3,400	1,240	1,200	10,590
09061500	Columbine ditch.....	0	0	0	0	0	0	0	62	1,080	531	141	93	1,910
09062000	Ewing ditch.........	30	0	0	0	0	0	0	116	581	263	92	68	1,120
09062500	Wurtz ditch.........	0	0	0	0	0	0	0	313	2,140	893	315	117	3,780
09063700	Homestake tunnel....	0	40	3,890	4,700	4,210	4,630	2,250	0	0	0	0	0	19,720
09073000	Twin Lakes tunnel...	760	370	182	141	113	159	183	5,170	26,340	15,710	3,550	1,340	54,010
09077160	Charles H. Boustead Tunnel............	0	0	0	0	0	0	0	7,080	41,220	23,830	3,360	0	75,490
09077500	Busk-Ivanhoe tunnel.	163	0	0	0	0	0	0	313	3,830	1,830	413	292	6,840
09115000	Larkspur ditch......	0	0	0	0	0	0	0	0	58	15	32	15	120
	TO RIO GRANDE BASIN													
09118200	Tarbell ditch.......	0	0	0	0	0	0	0	0	132	251	294	58	735
09121000	Tabor ditch.........	0	0	0	0	0	0	105	142	560	268	241	288	1,600
09341000	Treasure Pass diversion ditch.........	0	0	0	0	0	0	0	4.7	242	143	0.08	0	390
09347000	Don La Font ditches No. 1 and 2.......	0	0	0	0	0	0	0	0	112	98	0	0	210
09351000	Pine River-Weminuche Pass ditch........	0	0	0	0	0	0	0	0	444	185	0	0	629
09351500	Weminuche Pass ditch	0	0	0	0	0	0	0	0	814	774	0	0	1,590

NOTE.--Due to rounding procedures, water year totals may not agree.

CREST-STAGE PARTIAL-RECORD STATIONS

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1982

Station number	Station name	Location	Total drainage area (mi^2)	Non-contributing	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft^3/s)
		GREEN RIVER BASIN						
09361400	Junction Creek near Durango, CO	Lat 37°20'04", long 107°54'35", in sec.36, T.36 N., R.10 W., La Plata County, on left bank 4.5 mi (7.2 km) upstream from mouth and 4.5 mi (7.2 km) northwest of Durango.	26.3	-	1959-65, 1972, 1979-82	1982	3.05	300

Samples are collected at sites other than gaging stations and partial-record stations to give coverage in a river basin. Such sites are referred to as miscellaneous sites.

09260150 - YAMPA RIVER BL BOX ELDER PARK NR DINOSAUR, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM
APR										
29...	1700	6970	13.0	1670	31400	28	32	48	74	87
29...	1800	6970	13.0	2380	44800	--	--	--	--	--
MAY										
26...	1830	10300	13.0	1000	27800	15	21	31	56	77
26...	1930	10300	13.0	1070	29800	--	--	--	--	--
27...	1310	9670	13.0	742	19400	--	--	--	--	--
27...	1345	9670	13.0	742	19400	14	17	29	51	71
JUN										
09...	1720	8290	13.0	588	13200	12	12	18	32	46
09...	1800	8360	13.0	497	11200	--	--	--	--	--
10...	1155	8810	--	488	11600	12	16	23	43	59
10...	1245	8910	--	481	11600	--	--	--	--	--
21...	1815	8890	16.0	528	12700	10	14	19	36	50
21...	1900	8890	16.0	543	13000	--	--	--	--	--
22...	1215	8320	17.0	471	10600	13	15	22	40	54
22...	1345	8320	17.0	660	14800	--	--	--	--	--
23...	1240	8490	17.0	624	14300	9	0	14	28	39
23...	1330	8490	17.0	484	11100	--	--	--	--	--
JUL										
10...	1515	4380	22.0	176	2080	18	23	32	60	78
10...	1540	4380	22.0	173	2050	--	--	--	--	--
27...	1840	1660	25.0	408	1830	43	60	83	--	--

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
APR									
29...	95	98	100	--	--	--	--	--	--
29...	--	--	--	--	56	--	--	--	--
MAY									
26...	94	100	100	--	--	--	--	--	--
26...	--	--	--	--	57	--	--	--	--
27...	--	--	--	--	44	--	--	--	--
27...	92	100	--	--	--	--	--	--	--
JUN									
09...	71	91	100	--	--	--	--	--	--
09...	--	--	--	--	35	--	--	--	--
10...	86	99	100	--	--	--	--	--	--
10...	--	--	--	--	38	--	--	--	--
21...	68	85	93	100	--	--	--	--	--
21...	--	--	--	--	31	--	--	--	--
22...	79	92	100	--	--	--	--	--	--
22...	--	--	--	--	27	--	--	--	--
23...	66	84	100	--	--	--	--	--	--
23...	--	--	--	--	32	--	--	--	--
JUL									
10...	90	97	100	--	--	--	--	--	--
10...	--	--	--	--	56	--	--	--	--
27...	--	--	--	--	96	98	99	100	100

The following sites were part of the White River basin assessment study. The sampling was carried out during the low-flow period in August of 1981.

395949107134900 - NF WHITE R AT TRAPPERS LK OUTLET NR BUFORD, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)
AUG										
27...	1240	11	80	81	7.9	16.5	8.0	.49	33	38

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
AUG									
27...	10	3.1	1.7	.1	.8	47	< 1.0	< .1	.1

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG									
27...	11	.10	.020	.12	.140	.23	.37	.010	.010

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
AUG											
27...	50	20	0	1	3	40	0	< 1	< 1	0	0

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
AUG											
27...	< 1	< 1	0	0	8	10	4	10	10	80	43

395949107134900 - NF WHITE R AT TRAPPERS LK OUTLET NR BUFORD, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
AUG										
27...	6500	4	2	10	0	< 4	10	4	50	.0

DATE	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)
AUG										
27...	.0	.01	2	< 10	< 1	1	0	15	0	0

DATE	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG										
27...	0	1.0	10	3	36	2.5	.00	21	.00	.3

09302450 - LOST CREEK NEAR BUFORD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG											
27...	1045	1.4	480	473	8.0	12.5	9.0	.59	50	240	68

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG										
27...	16	12	.4	1.4	170	89	1.0	.1	13	303

09302450 - LOST CREEK NEAR BUFORD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG 27...	.41	1.2	.11	.020	.13	.140	.32	.46	.010	.010

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
AUG 27...	80	20	1	1	3	80	0	< 1	< 1	20	0

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
AUG 27...	< 1	1	0	0	4	10	5	5	9	130	20

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
AUG 27...	5000	3	1	10	10	16	20	9	290	.0

DATE	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)
AUG 27...	.0	.01	3	< 10	< 1	1	0	10	1	1

DATE	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG 27...	1	2.0	10	9	27	2.8	.00	1	.00	.6

09302500 - MARVINE CREEK NEAR BUFORD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)
AUG 27...	0900	59	300	308	7.9	9.0	9.4	.61	36	150

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
AUG 27...	45	9.2	2.9	.1	.8	93	68	<.1	.1

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
AUG 27...	20	.20	.020	.22	.150	.24	.39	.020	.010

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BERYL-LIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
AUG 27...	70	20	0	1	5	80	0	< 1	< 1	0	0

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)
AUG 27...	< 1	< 1	10	0	10	10	3	2	10	50	14

DATE	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
AUG 27...	3700	5	1	< 10	0	5	10	2	70	.0

09302500 - MARVINE CREEK NEAR BUFORD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	MOLYB-DENUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)
AUG										
27...	.0	.01	3	< 10	< 1	0	1	11	0	0

DATE	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	ALGAL GROWTH POTEN-TIAL, BOTTLE TEST (MG/L)
AUG										
27...	0	2.0	10	4	31	1.4	.00	64	.00	2.7

09303000 - NORTH FORK WHITE RIVER AT BUFORD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
AUG											
27...	1555	157	345	338	8.3	17.0	8.5	.45	36	160	50

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
AUG										
27...	9.4	3.1	.1	1.0	96	81	.1	.1	19	222

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
AUG										
27...	.30	94.1	.11	.020	.13	.140	.18	.32	.020	.010

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BERYL-LIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
AUG											
27...	90	10	1	0	3	50	0	< 1	< 1	10	0

09303000 - NORTH FORK WHITE RIVER AT BUFORD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, PECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
AUG 27...	< 1	< 1	10	0	5	0	3	3	7	80	< 10

DATE	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG 27...	0	3.0	10	< 3	15	1.7	.00	2	.00	1.7

395121107304400 - SF WHITE R AB SF CAMP NR BUDGES RESORT, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG 27...	1125	81	205	205	8.6	10.5	8.9	.48	34	100	29

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG 27...	7.8	2.1	.1	.8	110	2.0	.4	.1	16	125

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG 27...	.17	27.3	.12	.020	.14	.150	.19	.34	.010	.010

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
AUG 27...	50	20	0	0	3	100	0	< 1	< 1	0	0

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
AUG 27...	1	1	10	0	7	10	4	2	10	30	< 10

395121107304400 - SF WHITE R AB SF CAMP NR BUDGES RESORT, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
AUG										
27...	9000	6	0	20	0	3	0	< 1	280	.0

DATE	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)
AUG										
27...	.0	.01	2	< 10	< 1	4	0	23	0	0

DATE	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG										
27...	0	2.0	10	< 3	29	1.8	.00	5	.00	2.1

09303500 - SOUTH FORK WHITE RIVER NEAR BUFORD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG											
27...	1400	102	260	257	8.6	14.0	9.6	.49	36	130	38

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG										
27...	9.0	2.2	.1	.8	120	7.0	.4	2.2	15	147

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG										
27...	.20	40.5	.11	.020	.13	.160	.20	.36	.020	.010

09303500 - SOUTH FORK WHITE RIVER NEAR BUFORD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
AUG											
27...	50	10	0	0	2	70	0	< 1	< 1	0	0

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
AUG										
27...	< 1	< 1	10	0	9	10	4	3	10	60

DATE	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)
AUG										
27...	15	7000	8	0	10	0	4	10	8	110

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)
AUG										
27...	.0	.0	.01	2	< 10	< 1	0	1	18	0

DATE	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG										
27...	0	0	.0	10	10	30	2.5	.00	.00	1.4

PREVIOUSLY UNPUBLISHED ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

09304000 - SOUTH FORK WHITE RIVER AT BUFORD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
AUG											
27...	1520	89	335	326	8.8	19.5	7.8	.48	34	170	49

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
AUG										
27...	11	2.8	.1	.9	130	46	.4	.1	16	205

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
AUG										
27...	.28	49.3	.13	.020	.15	.170	.16	.33	.030	.010

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BERYL-LIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
AUG											
27...	70	10	0	1	3	80	0	< 1	< 1	0	0

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)
AUG											
27...	< 1	1	10	0	7	10	3	4	10	60	16

DATE	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
AUG										
27...	7000	3	3	10	0	5	10	4	150	.0

09304000 - SOUTH FORK WHITE RIVER AT BUFORD, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	MOLYB- DENUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)
AUG										
27...	.0	.01	2	< 10	< 1	0	0	18	0	0

DATE	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)
AUG										
27...	0	2.0	10	< 3	27	2.0	.00	2	.00	1.4

395923107383300 - BIG BEAVER CR AB LK AVERY NR BUFORD, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN DIS- SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
AUG											
27...	1000	2.3	675	736	8.2	14.0	9.1	.46	44	410	120

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
AUG										
27...	26	5.9	.1	1.3	160	250	1.0	.3	13	514

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
AUG										
27...	.70	3.2	.09	.020	.11	.120	.23	.35	.020	.010

DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BERYL- LIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)
AUG											
27...	40	20	1	2	7	70	0	< 1	< 1	10	0

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
AUG										
27...	< 1	< 1	20	0	6	0	3	2	9	50

395923107383300 - BIG BEAVER CR AB LK AVERY NR BUFORD, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)
AUG 27...	.1	.0	.03	4	< 10	< 1	3	1	10	0

DATE	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
AUG 27...	0	0	.0	10	< 3	20	2.5	.01	6	.00

395812107384800 - LK AVERY BOTTOM OUTLET AND DIV DITCH NR BUFORD

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG 27...	1220	2.4	355	387	7.4	8.5	5.0	.81	40	190	58

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG 27...	12	3.1	.1	1.0	130	81	1.2	.1	12	248

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG 27...	.34	1.6	.12	.020	.14	.410	.26	.67	.170	.040

395812107384800 - LK AVERY BOTTOM OUTLET AND DIV DITCH NR BUFORD

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
AUG											
27...	40	10	4	3	14	300	0	< 1	< 1	10	0

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
AUG										
27...	< 1	1	10	10	4	10	3	2	9	250

DATE	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)
AUG										
27...	33	12000	1	1	10	10	8	650	390	3500

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)
AUG										
27...	.0	.0	.02	3	< 10	1	1	1	11	0

DATE	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
AUG										
27...	0	0	1.0	10	< 3	19	5.3	.00	2	.00

395813107384500 - LAKE AVERY SPILLWAY NR BUFORD, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG											
27...	1120	.05	380	431	7.5	17.0	8.1	.75	34	220	63

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG										
27...	16	6.1	.2	1.0	180	58	1.7	.3	18	274

395813107384500 - LAKE AVERY SPILLWAY NR BUFORD, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG										
27...	.37	.04	.27	.020	.29	.140	.32	.46	.020	.010

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
AUG										
27...	50	20	2	8	400	0	< 1	< 1	10	0

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
AUG										
27...	< 1	1	0	0	10	10	4	5	30	180

DATE	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)
AUG										
27...	23	9500	3	1	< 10	10	8	430	410	19000

DATE	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)
AUG										
27...	.0	.02	4	< 10	2	0	0	20	0	0

DATE	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG									
27...	2.0	20	< 3	25	3.4	.00	7	.00	4.2

395643107461200 - WHITE R AB MILLER CR NR BUFORD, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG											
27...	1135	190	410	397	7.8	14.5	8.4	.41	35	200	61

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG										
27...	11	3.2	.1	1.0	120	89	.4	.2	17	255

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG										
27...	.35	131	.09	.020	.11	.130	.17	.30	.020	.010

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
AUG											
27...	70	10	1	1	2	50	0	< 1	< 1	0	0

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
AUG											
27...	< 1	1	0	0	4	10	5	2	7	130	< 10

395643107461200 - WHITE R AB MILLER CR NR BUFORD, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
AUG 27...	4700	22	1	10	10	8	20	4	60	.2

DATE	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)
AUG 27...	.0	.03	2	< 10	< 1	1	0	11	0	0

DATE	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG 27...	0	2.0	30	< 3	18	1.5	.00	2	.00	.4

09304150 - MILLER CREEK NEAR MEEKER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG 27...	1500	8.6	975	1020	8.0	18.0	9.5	3.5	31	590	190

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG 27...	28	3.8	.1	1.0	160	420	1.4	.5	30	794

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG 27...	1.1	18.4	2.80	.020	2.8	.130	.52	.65	.010	.010

09304150 - MILLER CREEK NEAR MEEKER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
AUG											
27...	30	10	0	1	1	70	0	< 1	< 1	20	0

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
AUG											
27...	< 1	1	10	0	2	10	4	2	5	20	< 10

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
AUG										
27...	850	I	0	10	10	15	0	3	110	.0

DATE	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)
AUG										
27...	.0	.01	3	< 10	< 1	2	0	10	1	1

DATE	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG										
27...	0	.0	10	3	10	1.5	.00	3	.00	.0

09304200 - WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG 27...	1015	145	440	430	8.2	14.0	8.8	.93	38	210	66

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG 27...	12	5.1	.2	1.0	130	98	1.9	.1	17	281

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG 27...	.38	110	.39	.020	.41	.180	.34	.52	.060	.010

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)
AUG 27...	80	10	1	1	2	40	0	< 1	< 1	0	0	< 1

DATE	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
AUG 27...	< 1	0	0	4	0	3	3	5	110	11	3100	5

DATE	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)
AUG 27...	2	< 10	10	8	20	6	70	.1	.0	.01	3	< 10

09304200 - WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG											
27...	<1	0	0	10	0	0	0	2.0	10	4	14

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	PCB, TOTAL (UG/L)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)
AUG										
27...	1.7	.00	36	.00	.00	.00	.00	.00	.00	.00

DATE	DDT, TOTAL (UG/L)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)
AUG										
27...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG									
27...	.00	.00	.00	.00	.00	.00	0	.00	1.6

400557107454900 - COAL CR BL NINEMILE DRAW NR MEEKER, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG										
26...	1110	1.7	600	583	8.3	16.0	7.6	42	290	60

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG										
26...	33	18	.5	3.3	220	82	3.6	.2	9.9	342

400557107454900 - COAL CR BL NINEMILE DRAW NR MEEKER, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG 26...	.47	1.6	< .020	< .01	.180	.64	.82	< .010	< .010

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
AUG 26...	140	10	2	1	4	90	0	< 1	< 1	40	1

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
AUG 26...	< 1	1	10	0	4	10	5	3	10	430

DATE	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)
AUG 26...	51	5500	5	2	10	20	28	40	19	190

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)
AUG 26...	.1	.0	.03	3	< 10	< 1	8	1	10	1

DATE	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
AUG 26...	1	0	4.0	10	4	30	11	.00	2	.00

09304480 - COAL CREEK BELOW LITTLE BEAVER C,NR MEEKER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG											
26...	1330	1.7	1300	1300	7.9	18.5	9.3	1.2	41	700	150

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG										
26...	79	49	.9	1.9	260	470	14	.4	10	934

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG										
26...	1.3	4.3	.63	.030	.66	.130	.36	.49	.020	.010

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)
AUG												
26...	160	30	1	1	2	70	0	< 1	< 1	90	0	< 1

DATE	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
AUG												
26...	1	10	10	5	10	4	6	9	350	< 10	5500	10

DATE	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)
AUG												
26...	0	10	60	75	80	5	90	.0	.0	.03	6	10

09304480 - COAL CREEK BELOW LITTLE BEAVER C,NR MEEKER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG 26...	< 1	0	1	15	22	28	0	1.0	10	< 3	23

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	PCB, TOTAL (UG/L)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)
AUG 26...	5.1	.00	5	.00	.00	.00	.00	.00	.00	.00

DATE	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)
AUG 26...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG 26...	.00	.00	.00	.00	.00	.00	0	.00	.1

09304500 - WHITE RIVER NEAR MEEKER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG 27...	0845	190	705	751	8.0	13.0	9.1	.57	50	270	75

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG 27...	19	53	1.5	1.6	160	130	62	.1	17	455

09304500 - WHITE RIVER NEAR MEEKER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG										
27...	.62	233	.12	.020	.14	.090	.34	.43	.020	.010

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
AUG											
27...	70	10	1	1	4	70	0	< 1	< 1	30	0

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
AUG											
27...	< 1	1	0	0	5	0	5	3	7	150	< 10

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
AUG										
27...	3700	2	1	70	10	17	30	14	120	.0

DATE	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)
AUG										
27...	.0	.01	3	< 10	< 1	2	0	10	1	1

DATE	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG										
27...	0	1.0	10	< 3	19	2.1	.00	14	.00	1.4

09304550 - CURTIS CREEK NEAR MEEKER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
AUG 26...	1505	.01	8000	6700	8.4	26.0	8.7	.99	76	2600	190

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
AUG 26...	520	880	7.5	14	630	3600	270	.3	26	5880

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
AUG 26...	8.0	.16	.18	.020	.20	.140	.65	.79	.030	.010

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BERYL-LIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
AUG 26...	380	20	3	3	5	90	0	0	< 1	730	0

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)
AUG 26...	0	1	10	10	8	10	6	4	17	690

DATE	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
AUG 26...	80	9000	3	1	60	430	440	90	70	240

09304550 - CURTIS CREEK NEAR MEEKER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)
AUG 26...	.2	.0	.02	5	4	2	5	0	18	6

DATE	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG 26...	6	3	7.0	20	20	55	15	.00	.10	.2

400113107574500 - WHITE R AT HWY 13 BRIDGE BL MEEKER, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG 26...	0845	220	710	729	7.9	13.0	8.2	.50	60	320	85

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG 26...	27	34	.9	1.8	180	160	31	.3	18	466

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG 26...	.63	277	.11	.020	.13	.120	.25	.37	.030	.010

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
AUG 26...	250	10	1	1	3	100	0	< 1	< 1	40	0

400113107574500 - WHITE R AT HWY 13 BRIDGE BL MEEKER, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
AUG											
26...	< 1	1	0	0	5	10	5	4	10	510	22

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
AUG										
26...	6500	8	2	10	20	23	40	22	200	.0

DATE	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)
AUG										
26...	.0	.02	3	< 10	< 1	1	3	15	1	1

DATE	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG										
26...	1	.0	10	< 3	34	5.1	.00	27	.00	2.5

400351107583000 - STRAWBERRY CR NR MEEKER, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG											
26...	1130	.01	> 8000	8520	8.3	20.5	10.6	1.5	94	1700	160

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG										
26...	310	1800	19	8.2	770	4600	150	.8	33	7530

400351107583000 - STRAWBERRY CR NR MEEKER, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG 26...	10.2	.20	.15	.020	.17	.140	1.2	1.3	.030	.010

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
AUG 26...	5000	10	3	3	3	100	0	0	<1	500	0

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
AUG 26...	0	1	20	10	4	10	21	5	20	8400	80

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
AUG 26...	5500	15	1	10	180	180	2400	1100	490	.0

DATE	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)
AUG 26...	.0	.02	3	3	<1	8	3	10	0	0

DATE	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG 26...	0	6.0	70	20	42	21	.00	0	.10	.8

09304800 - WHITE RIVER BELOW MEEKER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG 26...	0935	273	780	779	7.7	16.0	10.4	.50	42	330	84

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG 26...	28	45	1.2	2.1	190	180	34	.3	15	503

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG 26...	.68	371	.10	.020	.12	.130	.25	.38	.020	.010

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)
AUG 26...	140	20	1	1	3	80	0	<1	<1	40	0	<1

DATE	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
AUG 26...	<1	10	0	6	0	5	5	10	230	22	7000	2

09304800 - WHITE RIVER BELOW MEEKER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)
AUG 26...	0	<10	20	22	40	24	210	.0	.0	.02	3	<10

DATE	MOLYB-DENUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
AUG 26...	<1	2	0	11	1	1	0	.0	10	7	33

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	PCB, TOTAL (UG/L)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)
AUG 26...	4.5	.00	5	.00	.00	.00	.00	.00	.00	.00

DATE	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)
AUG 26...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	ALGAL GROWTH POTEN-TIAL, BOTTLE TEST (MG/L)
AUG 26...	.00	.00	.00	.00	.00	.00	0	.00	1.2

400025108063100 - HAY GULCH NR MEEKER, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)
AUG 26...	0900	5	300	< 1	1	20	10	10

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG 26...	7500	10	410	.01	< 1	11	0	28

400415108113600 - BLACKS GULCH NR MEEKER, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)
AUG 26...	0815	6	80	< 1	1	2	0	15

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG 26...	3000	10	210	.03	< 1	10	0	29

400543108132600 - WHITE R AB PICEANCE CR AT WHITE RIVER, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
AUG 26...	1335	250	695	768	8.7	18.5	9.7	.49	40	320	80

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
AUG 26...	28	44	1.2	1.9	180	180	33	.3	13	489

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
AUG 26...	.67	330	.09	.020	.11	.120	.26	.38	.010	.010

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BERYL-LIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)
AUG 26...	80	20	1	1	7	100	0	< 1	< 1	40	0	< 1

DATE	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)
AUG 26...	1	0	0	8	10	5	5	15	180	23	7500	2

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)
AUG 26...	0	10	20	23	20	18	240	.4	.5	.02	3	< 10

400543108132600 - WHITE R AB PICEANCE CR AT WHITE RIVER, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG											
26...	< 1	1	1	11	1	1	0	.0	10	24	28

DATE	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM DISSOLVED, EXTRACTION (UG/L)	O-18/O-16 STABLE ISOTOPE RATIO PER MIL	S-34/S-32 STABLE ISOTOPE RATIO PER MIL
AUG										
26...	< 12	< .4	< 4.7	< .4	< 4.5	< .4	.06	1.8	-16.9	3.1

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG					
26...	3.9	.00	1	.00	.3

09306222 - PICEANCE CREEK AT WHITE RIVER, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG											
26...	1345	5.0	3200	3290	8.9	23.5	9.2	.87	73	520	44

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
AUG											
26...	99	620	12	4.2	1340	1100	2.7	560	100	1.9	10

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG											
26...	2100	2.9	28.3	.10	.020	.12	.170	.58	.75	.080	.010

09306222 - PICEANCE CREEK AT WHITE RIVER, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)
AUG 26...	710	10	5	5	6	100	0	0	< 1	600	0	0

DATE	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
AUG 26...	1	10	0	20	10	6	5	7	1500	30	6000	7

DATE	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)
AUG 26...	2	10	70	80	50	20	330	.4	.0	.01	12	20

DATE	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG 26...	< 1	2	3	10	1	1	0	10	20	0	20

DATE	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)	O-18/O-16 STABLE ISOTOPE RATIO PER MIL	S-34/S-32 STABLE ISOTOPE RATIO PER MIL
AUG 26...	4.1	< 49	6.0	< 24	4.1	< 23	4.0	.12	4.7	-15.0	11.7

09306222 - PICEANCE CREEK AT WHITE RIVER, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	PCB, TOTAL (UG/L)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)
AUG										
26...	24	.00	0	.10	.00	.00	.00	.00	.00	.00

DATE	DDT, TOTAL (UG/L)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)
AUG									
26...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)
AUG									
26...	.00	.00	.00	.00	.00	.00	.00	0	.00

400945108203900 - WHITE R BL PICEANCE CR NR MEEKER, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG											
26...	1000	240	820	857	8.5	17.0	8.2	.60	470	290	69

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG										
26...	29	83	2.3	2.1	220	190	36	.3	14	556

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG										
26...	.76	360	.10	.020	.12	.100	.38	.48	.010	.010

400945108203900 - WHITE R BL PICEANCE CR NR MEEKER, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)
AUG 26...	220	10	1	2	4	90	0	< 1	1	60	0	< 1

DATE	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
AUG 26...	1	0	0	6	0	4	3	10	450	10	4700	2

DATE	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)
AUG 26...	1	10	20	25	20	6	240	.1	.2	.07	4	< 10

DATE	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG 26...	< 1	1	0	10	1	1	0	.0	10	< 3	24

DATE	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	O-18/O-16 STABLE ISOTOPE RATIO PER MIL	S-34/S-32 STABLE ISOTOPE RATIO PER MIL
AUG 26...	--	--	--	--	--	--	--	-16.8	.8
26...	< 15	.9	< 5.6	.9	< 5.4	.9	.06	--	--

400945108203900 - WHITE R BL PICEANCE CR NR MEEKER, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG					
26...	4.0	.00	1	.00	.3

09306255 - YELLOW CREEK NEAR WHITE RIVER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG											
26...	1330	E.88	3300	3460	8.8	29.0	8.3	1.0	73	460	19

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG										
26...	99	670	14	3.3	1210	500	140	1.9	5.7	2170

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG										
26...	3.0	4.9	.30	.020	.32	.150	.57	.72	.030	.010

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)
AUG												
26...	660	10	8	6	10	300	10	0	< 1	750	0	0

E ESTIMATED.

09306255 - YELLOW CREEK NEAR WHITE RIVER, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
AUG												
26...	1	10	0	10	10	5	4	10	780	40	6500	5

DATE	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)
AUG												
26...	2	10	160	160	20	10	400	.1	.0	.01	26	25

DATE	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG											
26...	< 1	2	2	11	2	2	0	11	10	20	24

DATE	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	O-18/O-16 STABLE ISOTOPE RATIO PER MIL	S-34/S-32 STABLE ISOTOPE RATIO PER MIL
AUG									
26...	--	--	--	--	--	--	--	-15.5	15.0
26...	< 50	2.1	< 24	1.4	< 23	1.3	.14	--	--

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG					
26...	12	.00	0	.10	.3

401203108283800 - WOLF CR NR RANGELY, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA) (01008)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01013)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)
AUG 26...	1030	2	100	< 1	1	4	10	5

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01063)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)
AUG 26...	3200	10	120	.01	< 1	7	0	15

400925108405600 - SPRING CR NR RANGELY, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)
AUG 26...	0915	< .01	9200	8910	8.4	16.5	8.8	2.5	93	2600

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
AUG 26...	160	530	1700	15	15	670	4900	180	1.1	9.0

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG 26...	7910	10.8	.08	.020	.10	.090	2.3	2.4	.020	.010

400925108405600 - SPRING CR NR RANGELY, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
AUG 26...	420	10	2	10	200	0	0	< 1	6600	0

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
AUG 26...	0	1	10	10	5	10	6	6	13	650

DATE	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)
AUG 26...	60	4600	6	1	10	530	530	250	240	550

DATE	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)
AUG 26...	.2	.03	47	43	< 1	4	5	15	0	5

DATE	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG 26...	5.0	20	30	20	19	.00	0	.10	.2

09306300 - WHITE RIVER ABOVE RANGELY, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG 25...	1245	208	795	734	8.1	20.5	8.7	.47	48	290	65

09306300 - WHITE RIVER ABOVE RANGELY, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG 25...	30	64	1.8	2.2	170	200	37	.3	13	514

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG 25...	.70	289	.08	.020	.10	.130	.24	.37	.010	.010

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)
AUG 25...	420	10	1	1	8	100	0	< 1	< 1	60	0	< 1

DATE	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
AUG 25...	1	0	0	6	10	6	4	13	1000	< 10	6000	6

DATE	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)
AUG 25...	2	10	20	23	30	8	350	.1	.0	.03	3	< 10

DATE	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG 25...	< 1	4	0	15	1	1	1	.0	10	< 3	34

09306300 - WHITE RIVER ABOVE RANGELY, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	PCB, TOTAL (UG/L)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)
AUG 25...	4.2	.00	0	.00	.00	.00	.00	.00	.00	.00

DATE	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)
AUG 25...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)
AUG 25...	.00	.00	.00	.00	.00	.00	.00	0	.00

395740108461600 - DOUGLAS CR AB NO NAME DRAW NR RANGELY, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA)	BERYL-LIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)
AUG 25...	1035	7	100	< 1	< 1	4	0	5

DATE	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	MOLYB-DENUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
AUG 25...	3200	10	250	.01	< 1	10	0	21

09306380 - DOUGLAS CREEK AT RANGELY, CO.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA)	BERYL-LIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)
AUG								
25...	1100	10	200	< 1	1	2	0	9

DATE	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	MOLYB-DENUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
AUG								
25...	3400	10	280	.01	< 1	5	0	17

400535108485700 - WHITE R AT HWY 64 BRIDGE BL RANGELY, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
AUG											
25...	0850	190	810	815	8.1	19.0	7.2	.65	44	300	72

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
AUG										
25...	30	61	1.7	2.2	170	200	41	.3	12	521

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
AUG										
25...	.71	267	.04	.010	.05	.090	.51	.60	.050	.020

400535108485700 - WHITE R AT HWY 64 BRIDGE BL RANGELY, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
AUG											
25...	700	20	2	2	9	200	10	< 1	< 1	60	0

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
AUG											
25...	< 1	1	0	0	4	10	10	5	20	1400	< 10

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
AUG										
25...	5000	15	1	10	20	28	50	9	320	.0

DATE	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)
AUG										
25...	.0	.05	3	< 10	< 1	7	4	11	1	1

DATE	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG										
25...	0	.0	80	11	33	4.7	.00	0	.00	1.8

401505108513700 - STINKING WATER GULCH NR BLUE MOUNTAIN, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG											
25...	1200	.04	840	840	7.8	15.5	8.1	.76	37	370	60

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG										
25...	53	54	1.4	2.0	410	24	9.2	.2	18	467

PREVIOUSLY UNPUBLISHED ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

401505108513700 - STINKING WATER GULCH NR BLUE MOUNTAIN, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
AUG 25...	.64	.05	.02	.010	.03	.070	.66	.73	.030	.010

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BERYL-LIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
AUG 25...	170	20	3	2	4	200	0	< 1	< 1	100	0

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)
AUG 25...	< 1	1	0	0	2	10	5	7	9	450

DATE	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
AUG 25...	15	3200	5	0	10	50	62	50	26	300

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	MOLYB-DENUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)
AUG 25...	.0	.0	.01	2	< 10	< 1	4	4	10	0

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	ALGAL GROWTH POTEN-TIAL, BOTTLE TEST (MG/L)
AUG 25...	0	0	.0	130	10	21	3.7	.00	.10	.3

400514108512000 - STINKING WATER GULCH NR CPC NR RANGELY, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)
AUG								
25...	0810	8	200	< 1	< 1	2	0	5

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG								
25...	3100	10	250	.01	< 1	4	0	16

400439108523400 - WHITE R BL STINKING WATER GULCH BL RANGELY, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG											
25...	0930	160	835	797	8.2	20.0	7.8	.61	39	300	68

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG										
25...	31	63	1.7	2.3	160	190	42	.3	12	505

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG										
25...	.69	218	.01	.010	.02	.030	.56	.59	.030	.010

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
AUG											
25...	900	20	2	2	8	100	0	< 1	1	60	0

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
AUG											
25...	< 1	1	0	10	4	10	7	6	20	1300	< 10

400439108523400 - WHITE R BL STINKING WATER GULCH BL RANGELY, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
AUG 25...	4000	5	0	10	20	25	50	7	260	.0

DATE	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)
AUG 25...	.0	.05	4	< 10	< 1	6	3	11	1	1

DATE	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG 25...	0	.0	40	< 3	30	8.7	.00	10	.10	.8

09306395 - WHITE RIVER NEAR COLORADO STATE LINE, UT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
AUG 25...	1015	200	850	815	8.6	20.5	7.6	.70	40	290	69

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG 25...	29	66	1.8	2.2	170	200	39	.3	13	521

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
AUG 25...	.71	281	.01	.010	.02	.060	.62	.68	.020	.000

09306395 - WHITE RIVER NEAR COLORADO STATE LINE, UT DISTRICT CODE 49

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
AUG											
25...	1600	10	2	2	7	80	0	< 1	< 1	60	0

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
AUG											
25...	< 1	1	0	10	3	10	8	5	15	2200	< 10

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
AUG										
25...	3200	4	0	10	20	24	60	4	200	.0

DATE	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)
AUG										
25...	.0	.02	4	< 10	< 1	4	4	10	1	1

DATE	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG										
25...	0	.0	20	< 3	17	5.1	.00	0	.00	.3

09165000 - DOLORES RIVER BELOW RICO, CO. (LAT 37 38 20 LONG 108 03 35)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1981			
06...	1640	290	12.0
NOV			
16...	0955	375	.0
JAN , 1982			
04...	1050	480	.0
FEB			
09...	1040	510	.0
MAR			
11...	1145	580	3.0
APR			
15...	1610	310	6.0
MAY , 1982			
03...	1145	230	4.0
27...	1540	175	6.0
JUN			
15...	1445	180	7.0
JUL			
07...	1445	190	10.0
30...	1330	250	15.0
AUG			
30...	1145	175	11.0

09166500 - DOLORES RIVER AT DOLORES, CO. (LAT 37 28 16 LONG 108 30 15)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1981			
05...	0950	320	10.0
NOV			
16...	0835	310	6.0
JAN , 1982			
04...	0920	460	.0
FEB			
09...	0915	490	.0
MAR			
11...	1315	500	1.0
APR			
16...	0800	230	2.5
MAY , 1982			
03...	0915	170	5.0
28...	0815	175	5.0
JUN			
17...	1345	140	14.0
JUL			
08...	1245	220	14.0
30...	1525	250	15.0
AUG			
30...	1340	225	15.0

09168100 - DISAPPOINTMENT CREEK NEAR DOVE CREEK, CO. (LAT 37 52 36 LONG 108 34 57)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1981			
05...	1210	1700	14.0
NOV			
17...	1340	1600	9.0
JAN , 1982			
06...	0905	2250	.0
FEB			
10...	1325	2800	.0
MAR			
10...	1005	2600	5.0
APR			
14...	1150	1250	15.0
MAY , 1982			
05...	0830	860	9.5
26...	1000	860	9.0
JUN			
14...	1010	480	11.0
JUL			
06...	1000	930	13.0
AUG			
02...	1040	1900	18.0
30...	1600	1080	26.0

09172500 - SAN MIGUEL RIVER NEAR PLACERVILLE, CO. (LAT 38 02 05 LONG 108 07 15)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1981			
06...	1445	350	12.0
NOV			
16...	1120	400	4.0
JAN , 1982			
04...	1335	360	.0
FEB			
09...	1345	430	1.0
MAR			
11...	0955	450	4.0
APR			
15...	1330	280	13.0
MAY			
03...	1455	320	9.0
MAY , 1982			
27...	1215	300	7.0
JUN			
15...	1115	260	6.5
29...	1110	180	8.0
JUL			
07...	0925	210	6.0
30...	1100	230	12.0
AUG			
30...	0945	260	10.0
SEP			
22...	1450	195	11.0

09177000 - SAN MIGUEL RIVER AT URAVAN, CO. (LAT 38 21 26 LONG 108 42 44)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1981			
05...	1605	930	15.0
NOV			
16...	1510	730	8.0
JAN , 1982			
04...	1555	900	.0
FEB			
09...	1555	710	3.0
MAR			
10...	1755	800	9.0
APR			
15...	0820	240	6.0
MAY , 1982			
04...	0815	280	9.0
27...	0825	400	12.0
JUN			
15...	0905	370	11.0
JUL			
06...	1740	350	18.0
AUG			
03...	0830	510	17.0
31...	1305	430	19.0

09236000 - BEAR RIVER NEAR TOPONAS, CO. (LAT 40 02 38 LONG 107 04 18)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
NOV , 1981				JUL , 1982			
12...	1105	92	2.0	21...	1230	65	10.0
JUN , 1982							
14...	1300	95	7.5				

09238500 - WALTON CREEK NEAR STEAMBOAT SPRINGS, CO. (LAT 40 24 29 LONG 106 47 11)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
MAY , 1982				JUL , 1982			
06...	1410	100	5.0	22...	1000	50	13.0
18...	1030	< 50	3.5	AUG			
26...	0900	< 50	2.0	24...	0945	--	12.5
JUN							
14...	1600	< 50	5.5				

09238900 - FISH CREEK AT UPPER STA NR STEAMBOATSPRINGS, C (LAT 40 28 30 LONG 106 47 11)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
MAY , 1982				JUL , 1982			
06...	1200	90	5.0	22...	1130	50	14.5
18...	0745	50	2.5	AUG			
26...	1045	--	3.5	24...	1300	--	14.0
JUN							
16...	0820	50	3.0				

09239500 - YAMPA RIVER AT STEAMBOAT SPRINGS, CO. (LAT 40 29 01 LONG 106 49 54)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
NOV , 1981				MAY , 1982			
24...	1200	--	3.5	20...	1515	130	9.0
DEC				JUN			
21...	1200	230	.0	24...	1400	60	12.0
JAN , 1982				JUL			
22...	1300	170	.0	22...	1500	140	21.0
FEB				AUG			
25...	1200	--	.0	24...	1400	--	20.0
MAR				SEP			
30...	1300	110	2.0	24...	1100	250	14.0
APR							
26...	1100	195	4.5				

09241000 - ELK RIVER AT CLARK, CO. (LAT 40 43 03 LONG 106 54 55)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
NOV , 1981				MAY , 1982			
13...	1100	75	.0	18...	1300	75	5.0
24...	1430	--	2.0	19...	1500	110	5.5
DEC				25...	1800	50	6.0
08...	1130	90	.0	JUN			
23...	1300	80	.0	15...	1145	70	5.0
MAR , 1982				JUL			
31...	1115	100	.0	21...	1430	50	10.5
APR							
23...	1250	95	5.0				

09245000 - ELKHEAD CREEK NEAR ELKHEAD, CO. (LAT 40 40 11 LONG 107 17 05)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
NOV , 1981				MAY , 1982			
09...	1230	270	3.0	18...	1630	170	8.5
DEC				25...	1340	100	7.0
03...	1130	270	.0	JUN			
JAN , 1982				24...	1230	140	15.0
21...	1130	240	.0	JUL			
MAR				23...	1230	195	22.5
04...	1150	320	.0	AUG			
MAY				25...	1045	240	14.0
10...	1210	120	3.5				

09250510 - TAYLOR CREEK AT MOUTH NEAR AXIAL, CO. (LAT 40 18 48 LONG 107 47 57)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1981				SEP , 1982			
05...	1400	1900	12.0	01...	1505	--	23.0
JUL , 1982							
26...	1530	--	28.0				

09302450 - LOST CREEK NEAR BUFORD, CO. (LAT 40 03 01 LONG 107 28 06)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
FEB , 1982				JUN , 1982			
25...	0950	340	.0	17...	1306	150	10.5
MAR				JUL			
22...	1025	430	.0	15...	1000	300	9.0

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
09302500 - MARVINE CREEK NEAR BUFORD, CO. (LAT 40 02 18 LONG 107 29 15)							
FEB , 1982				JUN , 1982			
25...	1200	300	.0	17...	1415	240	12.0
MAR							
22...	1200	340	1.0				
09303000 - NORTH FORK WHITE RIVER AT BUFORD, CO. (LAT 39 59 15 LONG 107 36 50)							
FEB , 1982				MAR , 1982			
25...	1435	330	2.0	22...	1450	390	3.0
09303500 - SOUTH FORK WHITE RIVER NEAR BUFORD, CO. (LAT 39 55 18 LONG 107 33 04)							
APR , 1982							
29...	1240	255	6.0				
09304000 - SOUTH FORK WHITE RÍVER AT BUFORD, CO. (LAT 39 58 28 LONG 107 37 29)							
FEB , 1982				APR , 1982			
25...	1620	250	2.0	29...	1345	275	7.0
MAR							
22...	1620	290	2.0				
09304500 - WHITE RIVER NEAR MEEKER, CO. (LAT 40 02 01 LONG 107 51 42)							
MAR , 1982				AUG , 1982			
10...	1400	760	2.0	30...	1645	570	17.0
APR							
28...	1000	490	5.5				
09339900 - EF SAN JUAN R AB SAND CREEK, NR PAGOSA SPGS, C (LAT 37 23 23 LONG 106 50 26)							
OCT , 1981				JUN , 1982			
05...	1230	140	11.0	14...	1150	80	9.0
NOV				29...	1025	70	9.0
18...	1155	145	3.0	JUL			
MAR , 1982				12...	1220	90	15.0
22...	1035	230	2.0	AUG			
MAY				03...	1205	105	17.5
06...	1150	100	7.0	SEP			
JUN				02...	1310	150	18.0
02...	1315	90	10.5				
09342500 - SAN JUAN RIVER AT PAGOSA SPRINGS, CO. (LAT 37 15 58 LONG 107 00 37)							
OCT , 1981				MAY , 1982			
05...	1425	120	14.0	06...	1005	110	3.5
NOV				JUN			
18...	1445	230	6.0	02...	0930	60	4.0
JAN , 1982				14...	1010	50	7.0
08...	1300	160	1.0	29...	0905	90	7.0
FEB				JUL			
09...	1555	190	.5	12...	1450	100	16.0
MAR				AUG			
18...	1155	300	6.0	03...	1650	100	18.0
APR				SEP			
20...	1210	110	4.0	02...	1145	215	17.0
09344000 - NAVAJO R AT BANDED PEAK RANCH, NEAR CHROMO, CO (LAT 37 05 07 LONG 106 41 20)							
OCT , 1981				APR , 1982			
07...	1340	--	10.0	13...	1250	--	6.0
NOV				26...	1400	--	5.0
12...	1210	--	5.5				
09346000 - NAVAJO RIVER AT EDITH, CO. (LAT 37 00 10 LONG 106 54 25)							
OCT , 1981				MAY , 1982			
05...	1025	180	8.5	06...	1430	300	11.0
NOV				JUN			
18...	1325	250	5.0	02...	1100	200	9.0
JAN , 1982				14...	1335	235	17.0
08...	1045	240	.0	JUL			
FEB				12...	1000	140	11.0
09...	1425	240	.0	AUG			
MAR				03...	1500	230	22.0
18...	1345	350	6.0	SEP			
APR				02...	1515	200	22.0
20...	0955	280	3.0				

09346400 - SAN JUAN RIVER NEAR CARRACAS, CO. (LAT 37 00 49 LONG 107 18 42)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1981				MAY , 1982			
06...	1015	220	11.0	05...	1305	170	9.0
NOV				27...	1005	180	9.0
20...	0930	290	.0	JUN			
JAN , 1982				15...	1420	95	13.0
04...	1035	300	.0	JUL			
FEB				07...	1340	135	16.0
10...	1535	400	.0	AUG			
MAR				04...	1345	210	24.0
17...	1300	600	6.0	SEP			
APR				02...	1735	180	22.0
19...	1335	200	9.0				

09347205 - MIDDLE FORK PIEDRA RIVER NEAR DYKE, CO. (LAT 37 27 10 LONG 107 10 33)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1981				MAY , 1982			
05...	1605	75	12.0	06...	1645	50	11.0
NOV				JUN			
18...	1005	110	1.0	02...	1530	60	10.5
JAN , 1982				14...	1540	< 50	11.0
08...	1510	100	.0	29...	1215	55	9.0
FEB				JUL			
09...	1510	80	.0	12...	1540	60	17.0
MAR				AUG			
18...	1005	70	3.0	03...	0945	< 50	10.0
APR				SEP			
20...	1355	50	6.0	02...	0955	< 50	9.0

09349800 - PIEDRA RIVER NEAR ARBOLES, CO. (LAT 37 05 18 LONG 107 23 50)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1981				MAY , 1982			
06...	1150	260	11.0	05...	1020	150	8.0
NOV				27...	1035	150	8.0
20...	1035	320	.0	JUN			
JAN , 1982				15...	1215	120	12.0
04...	1155	400	.0	JUL			
FEB				07...	1140	180	16.0
10...	1405	440	.0	AUG			
MAR				04...	1235	235	20.5
17...	1130	390	5.0	SEP			
APR				03...	1245	200	20.0
19...	1105	160	7.0				

09354500 - LOS PINOS RIVER AT LA BOCA, CO. (LAT 37 00 34 LONG 107 35 56)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1981				MAY , 1982			
06...	1500	250	17.0	05...	1540	180	11.0
NOV				27...	1415	200	12.0
20...	1330	210	5.0	JUN			
JAN , 1982				15...	1050	150	12.0
04...	1353	260	.0	JUL			
FEB				07...	0955	190	15.0
11...	1145	210	.0	AUG			
MAR				05...	0945	230	19.0
17...	0945	300	5.0	SEP			
APR				03...	1520	240	22.0
19...	1605	190	13.0				

[illegible] - SPRING CREEK AT LA BOCA, CO. (LAT 37 00 [illegible] LONG 107 35 [illegible])

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1981				MAY , 1982			
[illegible]	[illegible]	[illegible]	[illegible]	27...	[illegible]	[illegible]	[illegible]
NOV				JUN			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JAN , 1982				JUL			
[illegible]	[illegible]	[illegible]	.0	[illegible]	[illegible]	[illegible]	[illegible]
FEB				AUG			
[illegible]	[illegible]	[illegible]	.0	[illegible]	[illegible]	[illegible]	[illegible]
MAR				SEP			
17...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
APR							
[illegible]	[illegible]	[illegible]	[illegible]				

[illegible] - [illegible] RIVER AT [illegible], CO. (LAT 37 [illegible] LONG 107 [illegible])

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
[illegible] , 1981				[illegible] , 1982			
[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]	---	[illegible]
[illegible] , 1982				[illegible]			
[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]	---	[illegible]

09361500 - ANIMAS RIVER AT DURANGO, CO. (LAT 37 16 45 LONG 107 52 47)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)
OCT , 1981				MAY , 1982			
20...	1455	350	7.0	24...	1415	240	8.0
NOV				JUN			
24...	1250	500	7.0	03...	1140	170	7.5
DEC				22...	1140	190	9.0
21...	1355	610	3.0	JUL			
JAN , 1982				23...	0940	190	14.0
21...	1325	600	2.0	AUG			
FEB				20...	1005	350	16.5
22...	1345	660	6.0	25...	1500	170	12.5
MAR				SEP			
23...	1245	550	7.0	27...	0850	300	12.0
APR							
26...	1330	360	9.0				

09363050 - FLORIDA R BL FLOR FARMERS DITCH, NR DURANGO, C (LAT 37 17 42 LONG 107 47 28)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)
OCT , 1981				MAY , 1982			
01...	1300	175	13.0	04...	1250	220	8.0
NOV				JUN			
13...	1105	280	5.0	02...	1350	250	10.0
DEC				04...	1020	250	10.0
22...	1225	310	.0	JUL			
FEB , 1982				09...	1045	180	13.0
01...	1140	320	.0	AUG			
MAR				06...	0825	140	10.0
03...	1320	320	4.0	31...	1320	180	20.0
31...	1125	340	6.0				

09363100 - SALT CREEK NEAR OXFORD, CO. (LAT 37 08 23 LONG 107 45 10)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)
OCT , 1981				APR , 1982			
01...	1105	200	11.0	05...	1120	1100	10.0
NOV				MAY			
13...	0945	210	4.0	04...	1045	1200	15.0
DEC				JUN			
22...	1110	1100	.0	02...	1100	260	12.0
FEB , 1982				JUL			
02...	1050	1250	.0	09...	0930	180	16.0
17...	1050	1050	2.0	AUG			
MAR				05...	1115	160	18.0
03...	1145	390	1.0	31...	1215	190	20.0
10...	1515	350	4.0				
12...	0850	290	5.0				
23...	1045	880	6.0				

09363200 - FLORIDA RIVER AT BONDAD, CO. (LAT 37 03 24 LONG 107 52 09)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)
OCT , 1981				MAY , 1982			
01...	0940	440	12.0	04...	0930	240	8.0
NOV				JUN			
13...	0830	440	4.0	02...	0940	250	10.5
DEC				04...	1230	290	10.5
22...	1005	530	.0	16...	0925	350	14.0
FEB , 1982				JUL			
02...	0910	570	.0	09...	0825	300	16.0
MAR				AUG			
03...	1020	390	3.0	05...	1240	340	21.0
23...	0935	500	4.0	31...	1120	350	19.0
APR							
05...	1010	420	8.0				

09365500 - LA PLATA RIVER AT HESPERUS, CO. (LAT 37 17 23 LONG 108 02 24)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)
OCT , 1981				FEB , 1982			
[illegible]	[illegible]	--	[illegible]	02...	1140	--	.0
19...	1600	--	10.5	MAR			
NOV				03...	1055	--	2.0
18...	[illegible]	--	3.5	17...	1100	--	6.5
DEC				APR			
[illegible]	[illegible]	--	3.0	19...	1125	--	7.0
JAN , 1982							
[illegible]	[illegible]	--	.0				

09371000 - MANCOS RIVER NEAR TOWAOC, CO. (LAT 37 01 39 LONG 108 44 27)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1981				MAY , 1982			
02...	1130	1500	15.0	05...	1420	470	12.0
26...	1150	1200	8.0	20...	1045	570	13.0
NOV				28...	1135	510	14.0
12...	1010	1500	5.0	JUN			
DEC				17...	1030	920	18.0
07...	1015	1750	1.0	JUL			
JAN , 1982				02...	0925	1250	18.0
12...	1335	2000	.0	15...	1030	1520	20.0
FEB				AUG			
16...	1120	1750	2.0	05...	1215	1300	22.0
MAR				19...	1220	1300	25.0
01...	1110	1780	5.0	26...	1310	560	18.5
16...	1200	1250	7.5	SEP			
APR				29...	1325	1100	14.0
14...	1125	530	12.0				
19...	1050	560	10.0				

09371420 - MCELMO CREEK ABOVE ALKALI CANYON, NR CORTEZ, C (LAT 37 19 38 LONG 108 38 55)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1981				MAY , 1982			
02...	1235	2800	14.0	10...	0920	2100	11.0
NOV				JUN			
12...	0955	2700	4.0	03...	0950	1800	15.0
JAN , 1982				21...	0940	1550	16.0
11...	1425	2700	.0	JUL			
FEB				09...	1105	1450	19.0
05...	1400	1400	.0	AUG			
MAR				04...	0925	1800	18.0
05...	1100	3400	3.0	26...	1015	1780	17.0
15...	1200	2900	4.0				
APR							
20...	1135	3400	8.0				

09371492 - MUD CREEK AT STATE HIGHWAY 32, NEAR CORTEZ, CO (LAT 37 18 46 LONG 108 39 38)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
MAR , 1982				JUN , 1982			
08...	1410	4900	6.0	21...	1410	1410	18.0
12...	1330	3500	7.0	JUL			
15...	1350	6000	5.0	08...	1500	1900	19.5
APR				AUG			
01...	1035	6300	3.0	03...	1435	1950	21.0
20...	1450	5200	10.0	26...	1150	2600	18.0
22...	1405	5000	7.0	SEP			
27...	1300	3000	12.5	29...	1205	2250	11.0
MAY							
05...	1210	3200	11.0				
28...	0950	2100	12.0				

09371700 - MCELMO CREEK BELOW CORTEZ, CO. (LAT 37 20 26 LONG 108 48 19)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1981				MAY , 1982			
02...	0905	2000	13.0	10...	1330	2000	18.0
NOV				JUN			
12...	1400	2600	8.0	03...	1420	2000	21.0
JAN , 1982				21...	1305	1500	20.0
11...	1210	3000	.0	JUL			
FEB				08...	1420	1380	20.0
16...	1230	2800	1.0	AUG			
MAR				04...	1405	1800	22.0
15...	1035	3100	6.0	30...	0950	1600	19.0
APR							
19...	1405	3600	10.5				

09372000 - MCELMO CREEK NEAR COLORADO-UTAH STATE LINE (LAT 37 19 27 LONG 109 00 54)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1981				MAY , 1982			
02...	1020	2400	15.0	10...	1215	2650	15.5
NOV				JUN			
12...	1240	2200	9.0	03...	1305	2300	20.5
JAN , 1982				21...	1135	1700	19.0
11...	1020	3000	.0	JUL			
FEB				09...	0935	1050	17.0
16...	1115	2000	5.0	AUG			
MAR				04...	1230	1800	20.0
17...	0905	3000	7.0	30...	1100	1900	20.0
APR							
19...	1245	1900	17.0				

LA PLATA COUNTY

370122107522700 NB 32- 9-18BBB. B. Cogburn. Drilled stock water-table well in Naciemento Formation. Diameter, 6 in (0.2 m). Depth, 138 ft (42.1 m). MP, 0.3 ft (0.1 m) above lsd. Altitude of land surface, 5,980 ft (1,822.7 m). Records available: 1973-82.

Highest water level, 19.18 ft (5.9 m) below lsd, Aug. 26, 1976; lowest water level, 27.3 ft (8.3 m) below lsd, Apr. 30, 1974.

Aug. 5, 1982 22.16 ft

MOFFAT COUNTY

403040107420801 SB 7-92-34DBD. J. Herod. Drilled domestic water-table well in Browns Park Formation. Diameter, 5 in (0.1 m). Depth, 190 ft (57.9 m). MP, 4.0 ft (1.2 m) below lsd. Altitude of land surface, 6,545 ft (1,994.9 m). Records available: 1974-80.

Highest water level, 70.3 ft (21.4 m) below lsd, Feb. 2, 1976; lowest water level, 72.9 ft (22.2 m) below lsd, Nov. 7, 1974.

1982 No measurement

MONTEZUMA COUNTY

370410108583701 NB33-20-25CDC. Ute Indian Tribe. Drilled stock water-table well in Dakota Sandstone. Diameter, 5 in (0.1 m). Depth, 250 ft (76.2 m). MP, 2.0 ft (0.6 m) above lsd. Altitude of land surface, 4,900 ft (1,493.5 m). Records available: 1973-82.

Highest water level, -1.59 ft (+0.48 m) above lsd, Sept. 30, 1975; lowest water level, 59.43 ft (15.5 m below lsd, Aug. 18,1980.

Aug. 5, 1982 54.83 ft

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October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons